Table S8. Corrections to N16961 genome sequence

| Large         424629         VC0398         G         T           Large         424645         VC0398         A         GA           Large         424670         VC0398         G         none           Large         638169         VC0607         C         TC           Large         638169         VC0933 (VC0932)         T         CT           Large         198435         VC1961         A         G           Large         1618601         VC1576 (VC1565)         C         CC           Large         1618601         VC1536 (VC1505)         C         CC           Large         1649049         VC1536 (VC1535)         C         none           Large         1676600         VC1536 (VC1564)         C         CC           Large         1676703         VC1563 (VC1564)         G         CGA           Large         1748765         VC1625         T         CT           Large         1748765         VC1739 (VC1738)         T         TT           Large         1875074         VC1739 (VC1738)         T         TT           Large         1908054         VC1761 (VC1760)         T         none  | chromosome | location | gene location   | original base | corrected base |
|--|------------|----------|-----------------|---------------|----------------|
| Large         424670         VC0398         G         none           Large         638169         VC0607         C         TC           Large         998435         VC0933 (VC0932)         T         C           Large         1228191         VC1757 (VC1156)         C         C           Large         1335598         VC1261         A         G           Large         1618601         VC1504 (VC1505)         C         C           Large         1625933         VC1513         C         C         C           Large         1649049         VC1536 (VC1535)         C         none         C         CC           Large         1676600         VC1536 (VC1544)         C         C         C         C           Large         1676600         VC1536 (VC1544)         G         CGA         CGA           Large         1676600         VC1536 (VC1544)         G         CGA           Large         1748765         VC1625         T         T         T           Large         175744         VC1739 (VC1738)         T         T         T         T           Large         1875074         VC1761 (VC1760)         T   | Large      | 424629   | VC0398          | G             | T              |
| Large         638169         VC0607         C         TC           Large         998435         VC0933 (VC0932)         T         CT           Large         1228191         VC1157 (VC1156)         C         CC           Large         1335598         VC1261         A         G           Large         1618601         VC1504 (VC1505)         C         CC           Large         1625933         VC1536 (VC1535)         C         none           Large         1676600         VC1536 (VC1564)         C         C           Large         1676600         VC1563(VC1564)         G         CGA           Large         1676703         VC1563(VC1564)         G         CGA           Large         1748765         VC1625         T         CT           Large         1875074         VC1739 (VC1738)         T         TT         TT           Large         1900854         VC1701 (VC1760)         T         none         Large         2489046         VC2338         G         G         G           Large         2489046         VC2103         T         none         Large         2265543         VC2105 (VC2104)         T         none  | Large      | 424645   | VC0398          | A             | GA             |
| Large         998435         VC0933 (VC0932)         T         CT           Large         1228191         VC1157 (VC1156)         C         CC           Large         1335598         VC1261         A         G           Large         1618601         VC1504 (VC1505)         C         CC           Large         162933         VC1513         C         C         CC           Large         1649049         VC1536 (VC1535)         C         none         none           Large         1676600         VC1536 (VC1564)         C         C         C           Large         1676703         VC1563 (VC1564)         G         CGA           Large         1748765         VC1625         T         C         C           Large         1875074         VC1739 (VC1738)         T         TT         T           Large         1900854         VC1761 (VC1760)         T         none         Large         2489046         VC2338         G         G         G           Large         2262543         VC2105 (VC2104)         T         none         Large         22657595         VC2173         G         none           Large         257595   | Large      | 424670   | VC0398          | G             | none           |
| Large         1228191         VC1157 (VC1156)         C         CC           Large         1335598         VC1261         A         G           Large         1618601         VC1504 (VC1505)         C         CC           Large         1625933         VC1513         C         C           Large         1649049         VC1536 (VC1535)         C         none           Large         1676600         VC1563(VC1564)         G         CGA           Large         1676703         VC1563(VC1564)         G         CGA           Large         1748765         VC1625         T         CT           Large         1875074         VC1739 (VC1738)         T         T         T           Large         1900854         VC1761 (VC1760)         T         none         Large         2489046         VC2338         G         G         G           Large         2489046         VC2338         G         G         G         C<   | Large      | 638169   | VC0607          | C             | TC             |
| Large         1335598         VC1261         A         G           Large         1618601         VC1504 (VC1505)         C         CC           Large         1625933         VC1513         C         CC           Large         1649049         VC1536 (VC1535)         C         none           Large         1676600         VC1563 (VC1564)         C         CC           Large         1676703         VC1563 (VC1564)         G         CGA           Large         1676703         VC1563 (VC1564)         G         CGA           Large         1748765         VC1625         T         CT           Large         1875074         VC1739 (VC1738)         T         TT           Large         1900854         VC1761 (VC1760)         T         none           Large         1900854         VC1761 (VC1760)         T         none           Large         1900854         VC1761 (VC1760)         T         none           Large         2489046         VC2338         G         G         G           Large         2265543         VC2105 (VC2104)         T         none         C         C         C           Large         2318   | Large      | 998435   | VC0933 (VC0932) | T             | CT             |
| Large         1618601         VC1504 (VC1505)         C         CC           Large         1625933         VC1513         C         CC           Large         1649049         VC1536 (VC1535)         C         none           Large         1676600         VC1563 (VC1564)         C         C         CC           Large         1676703         VC1563 (VC1564)         G         CGA         CGA           Large         1748765         VC1625         T         CT         T         T         TT           Large         1875074         VC1739 (VC1738)         T         T         TT         none         Large         1900854         VC1761 (VC1760)         T         none         Large         2489046         VC2338         G         G         G         G         G         G         G         G         G         G         G         G         G         C  | Large      | 1228191  | VC1157 (VC1156) | C             | CC             |
| Large         1625933         VC1513         C         CC           Large         1649049         VC1536 (VC1535)         C         none           Large         1676600         VC1563(VC1564)         C         CC           Large         1676703         VC1563(VC1564)         G         CGA           Large         1748765         VC1625         T         CT           Large         1875074         VC1739 (VC1738)         T         TT           Large         1900854         VC1761 (VC1760)         T         none           Large         2489046         VC2338         G         G         G           Large         2266555         VC2109         C         C         C           Large         22318560         VC2173         G         none         Large         2657595         VC2477 (VC2476)         T         CT         C           Large         2738434         VC2556 (VC2557)         T         CT         C         C           Large         2907037         VC2733         G         G         G         C*           Large         553569         VC0518         C         CC*         C           Lar   | Large      | 1335598  | VC1261          | A             | G              |
| Large         1649049         VC1536 (VC1535)         C         none           Large         1676600         VC1563(VC1564)         C         CC           Large         1676703         VC1563(VC1564)         G         CGA           Large         1748765         VC1625         T         CT           Large         1875074         VC1739 (VC1738)         T         TT           Large         1900854         VC1761 (VC1760)         T         none           Large         2489046         VC2338         G         G         G           Large         2266555         VC2109         C         CC         C           Large         2266655         VC2109         C         CC         C           Large         2318560         VC2173         G         none         C         CC           Large         2657595         VC2477 (VC2476)         T         CT         CT         C           Large         2907037         VC2733         G         G         G         G           Large         2907037         VC2733         G         G         G         C*           Large         335660         VC0321   | Large      | 1618601  | VC1504 (VC1505) | C             | CC             |
| Large         1676600         VC1563(VC1564)         C         CC           Large         1676703         VC1563(VC1564)         G         CGA           Large         1748765         VC1625         T         CT           Large         1875074         VC1739 (VC1738)         T         TT           Large         1900854         VC1761 (VC1760)         T         none           Large         2489046         VC2338         G         G         G           Large         2262543         VC2105 (VC2104)         T         none         Large         2266655         VC2109         C         C         C           Large         2318560         VC2173         G         none         Large         2657595         VC2477 (VC2476)         T         CT         CT           Large         2657595         VC2477 (VC2476)         T         CT         CT         Large         2907037         VC2733         G         G         G         G         C*         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C  | Large      | 1625933  | VC1513          | C             | CC             |
| Large         1676703         VC1563(VC1564)         G         CGA           Large         1748765         VC1625         T         CT           Large         1875074         VC1739 (VC1738)         T         TT           Large         1900854         VC1761 (VC1760)         T         none           Large         2489046         VC2338         G         G           Large         2266555         VC2109         C         CC           Large         2266655         VC2109         C         CC           Large         2318560         VC2173         G         none           Large         2657595         VC2477 (VC2476)         T         CT           Large         2738434         VC2556 (VC2557)         T         CT           Large         2907037         VC2733         G         G         G           Large         2907037         VC2733         G         G         G         C*           Large         335660         VC0321         G         C*         C         C*           Large         553569         VC0518         C         CC*         C*           Large         663766   | Large      | 1649049  | VC1536 (VC1535) | C             | none           |
| Large         1748765         VC1625         T         CT           Large         1875074         VC1739 (VC1738)         T         TT           Large         1900854         VC1761 (VC1760)         T         none           Large         2489046         VC2338         G         GG           Large         2262543         VC2105 (VC2104)         T         none           Large         2266655         VC2109         C         CC           Large         2318560         VC2173         G         none           Large         2657595         VC2477 (VC2476)         T         CT           Large         2738434         VC2556 (VC2557)         T         CT           Large         2907037         VC2733         G         GG           Large         2907037         VC2733         G         C°           Large         335660         VC0321         G         C°           Large         553569         VC0518         C         CC*           Large         555404         VC0521         G         GG*           Large         849965         VC0793m         G         GG*           Large <td< td=""><td>Large</td><td>1676600</td><td>VC1563(VC1564)</td><td>C</td><td>CC</td></td<> | Large      | 1676600  | VC1563(VC1564)  | C             | CC             |
| Large         1875074         VC1739 (VC1738)         T         TT           Large         1900854         VC1761 (VC1760)         T         none           Large         2489046         VC2338         G         GG           Large         2262543         VC2105 (VC2104)         T         none           Large         2266655         VC2109         C         CC           Large         2318560         VC2173         G         none           Large         2657595         VC2477 (VC2476)         T         CT           Large         2738434         VC2556 (VC2557)         T         CT           Large         2907037         VC2733         G         G         GG           Large         335660         VC0321         G         C*         C         C*           Large         553569         VC0518         C         CC*         C         C*           Large         555404         VC0521         G         GG*         G*           Large         48965         VC0793m         G         GG*         G*           Large         1183050         VC1113         A         G*           Large  | Large      | 1676703  | VC1563(VC1564)  | G             | CGA            |
| Large         1900854         VC1761 (VC1760)         T         none           Large         2489046         VC2338         G         GG           Large         2262543         VC2105 (VC2104)         T         none           Large         2266655         VC2109         C         CC           Large         2318560         VC2173         G         none           Large         2657595         VC2477 (VC2476)         T         CT           Large         2738434         VC2556 (VC2557)         T         CT           Large         2907037         VC2733         G         GG           Large         335660         VC0321         G         C*           Large         553569         VC0518         C         CC*           Large         555404         VC0521         G         GG*           Large         663766         VC0624         T         A*           Large         1087962         VC1018         T         GT*           Large         1183050         VC1113         A         G*           Large         1237260         VC1165         G         C*           Large         1389484 </td <td>Large</td> <td>1748765</td> <td>VC1625</td> <td>T</td> <td>CT</td>           | Large      | 1748765  | VC1625          | T             | CT             |
| Large         2489046         VC2338         G         GG           Large         2262543         VC2105 (VC2104)         T         none           Large         2266655         VC2109         C         CC           Large         2318560         VC2173         G         none           Large         2657595         VC2477 (VC2476)         T         CT           Large         2738434         VC2556 (VC2557)         T         CT           Large         2907037         VC2733         G         G         G           Large         335660         VC0321         G         C*         C           Large         553569         VC0518         C         CC*         C           Large         555404         VC0521         G         GG*           Large         663766         VC0624         T         A*           Large         1087962         VC1018         T         GT*           Large         1183050         VC1113         A         G*           Large         1237259         VC1165         C         G*           Large         1389484         VC1307         C         CC* <tr< td=""><td>Large</td><td>1875074</td><td>VC1739 (VC1738)</td><td>T</td><td>TT</td></tr<>       | Large      | 1875074  | VC1739 (VC1738) | T             | TT             |
| Large         2262543         VC2105 (VC2104)         T         none           Large         2266655         VC2109         C         CC           Large         2318560         VC2173         G         none           Large         2657595         VC2477 (VC2476)         T         CT           Large         2738434         VC2556 (VC2557)         T         CT           Large         2907037         VC2733         G         G         G           Large         335660         VC0321         G         C*         C           Large         553569         VC0518         C         CC*         C           Large         555404         VC0521         G         GG*         G           Large         663766         VC0624         T         A*         A*           Large         1087962         VC1018         T         GT*           Large         1183050         VC1113         A         G*           Large         1237259         VC1165         C         G*           Large         1389484         VC1307         C         CC*           Large         1486534         VC1395         C <td>Large</td> <td>1900854</td> <td>VC1761 (VC1760)</td> <td>T</td> <td>none</td>        | Large      | 1900854  | VC1761 (VC1760) | T             | none           |
| Large         2266655         VC2109         C         CC           Large         2318560         VC2173         G         none           Large         2657595         VC2477 (VC2476)         T         CT           Large         2738434         VC2556 (VC2557)         T         CT           Large         2907037         VC2733         G         GG           Large         335660         VC0321         G         C*           Large         553569         VC0518         C         CC*           Large         553569         VC0518         C         CC*           Large         553660         VC0521         G         GG*           Large         553660         VC0521         G         GG*           Large         553660         VC0521         G         GG*           Large         663766         VC0624         T         A*           Large         1087962         VC1018         T         GT*           Large         1183050         VC1113         A         G*           Large         1237259         VC1165         G         C         C*           Large         1389484   | Large      | 2489046  | VC2338          | G             | GG             |
| Large         2318560         VC2173         G         none           Large         2657595         VC2477 (VC2476)         T         CT           Large         2738434         VC2556 (VC2557)         T         CT           Large         2907037         VC2733         G         G         G           Large         335660         VC0321         G         C*         CC*           Large         553569         VC0518         C         CC*           Large         553569         VC0521         G         GG*           Large         555404         VC0521         G         GG*           Large         663766         VC0624         T         A*           Large         849965         VC0793m         G         GG*           Large         1087962         VC1018         T         GT*           Large         1183050         VC1113         A         G*           Large         1237259         VC1165         C         G*           Large         1389484         VC1307         C         CC*           Large         2076300         VC1925         A         G*           Large  | Large      | 2262543  | VC2105 (VC2104) | T             | none           |
| Large         2657595         VC2477 (VC2476)         T         CT           Large         2738434         VC2556 (VC2557)         T         CT           Large         2907037         VC2733         G         G           Large         335660         VC0321         G         C*           Large         553569         VC0518         C         CC*           Large         553569         VC0521         G         GG*           Large         663766         VC0624         T         A*           Large         849965         VC0793m         G         GG*           Large         1087962         VC1018         T         GT*           Large         1183050         VC1113         A         G*           Large         1237259         VC1165         C         G*           Large         1237260         VC1165         G         C*           Large         1389484         VC1307         C         CC*           Large         2076300         VC1925         A         G*           Large         2153724         VC2001         T         A*           Large         2179341         VC2027<  | Large      | 2266655  | VC2109          | C             | CC             |
| Large         2738434         VC2556 (VC2557)         T         CT           Large         2907037         VC2733         G         GG           Large         335660         VC0321         G         C*           Large         553569         VC0518         C         CC*           Large         553569         VC0521         G         GG*           Large         663766         VC0624         T         A*           Large         849965         VC0793m         G         GG*           Large         1087962         VC1018         T         GT*           Large         1183050         VC1113         A         G*           Large         1237259         VC1165         C         G*           Large         1237260         VC1165         G         C*           Large         1389484         VC1307         C         CC*           Large         1486534         VC1395         C         CC*           Large         2076300         VC1925         A         G*           Large         2153724         VC2001         T         A*           Large         2179341         VC2027  | Large      | 2318560  | VC2173          | G             | none           |
| Large         2907037         VC2733         G         GG           Large         335660         VC0321         G         C*           Large         553569         VC0518         C         CC*           Large         553569         VC0521         G         GG*           Large         555404         VC0521         G         GG*           Large         663766         VC0624         T         A*           Large         1087962         VC0793m         G         GG*           Large         1087962         VC1018         T         GT*           Large         1183050         VC1113         A         G*           Large         1237259         VC1165         C         G*           Large         1237260         VC1165         G         C*           Large         1389484         VC1307         C         CC*           Large         1486534         VC1395         C         CC*           Large         2076300         VC1925         A         G*           Large         2153724         VC2001         T         A*           Large         2358194         VC2209 <t< td=""><td>Large</td><td>2657595</td><td>VC2477 (VC2476)</td><td>T</td><td>CT</td></t<>                   | Large      | 2657595  | VC2477 (VC2476) | T             | CT             |
| Large         335660         VC0321         G         C*           Large         553569         VC0518         C         CC*           Large         555404         VC0521         G         GG*           Large         663766         VC0624         T         A*           Large         849965         VC0793m         G         GG*           Large         1087962         VC1018         T         GT*           Large         1183050         VC1113         A         G*           Large         1237259         VC1165         C         G*           Large         1237260         VC1165         G         C*           Large         1389484         VC1307         C         CC*           Large         1486534         VC1395         C         CC*           Large         2076300         VC1925         A         G*           Large         2153724         VC2001         T         A*           Large         2358194         VC2027         C         G*           Large         2379972         VC2225         A         G*           Large         2612864         VC2437 <td< td=""><td>Large</td><td>2738434</td><td>VC2556 (VC2557)</td><td>T</td><td>CT</td></td<>                  | Large      | 2738434  | VC2556 (VC2557) | T             | CT             |
| Large         553569         VC0518         C         CC*           Large         555404         VC0521         G         GG*           Large         663766         VC0624         T         A*           Large         849965         VC0793m         G         GG*           Large         1087962         VC1018         T         GT*           Large         1183050         VC1113         A         G*           Large         1237259         VC1165         C         G*           Large         1237260         VC1165         G         C*           Large         1389484         VC1307         C         CC*           Large         1486534         VC1395         C         CC*           Large         2076300         VC1925         A         G*           Large         2153724         VC2001         T         A*           Large         2179341         VC2027         C         G*           Large         2358194         VC2209         C         CC*           Large         2379972         VC2225         A         G*           Large         2612864         VC2437         <   | Large      | 2907037  | VC2733          | G             | GG             |
| Large       555404       VC0521       G       GG*         Large       663766       VC0624       T       A*         Large       849965       VC0793m       G       GG*         Large       1087962       VC1018       T       GT*         Large       1183050       VC1113       A       G*         Large       1237259       VC1165       C       G*         Large       1237260       VC1165       G       C*         Large       1389484       VC1307       C       CC*         Large       1486534       VC1395       C       C       CC*         Large       2076300       VC1925       A       G*         Large       2153724       VC2001       T       A*         Large       2179341       VC2027       C       G*         Large       2358194       VC2209       C       CC*         Large       2379972       VC2225       A       G*         Large       2612864       VC2437       C       CC*   | Large      | 335660   | VC0321          | G             | C*             |
| Large       663766       VC0624       T       A*         Large       849965       VC0793m       G       GG*         Large       1087962       VC1018       T       GT*         Large       1183050       VC1113       A       G*         Large       1237259       VC1165       C       G*         Large       1237260       VC1165       G       C*         Large       1389484       VC1307       C       CC*         Large       1486534       VC1395       C       CC*         Large       2076300       VC1925       A       G*         Large       2153724       VC2001       T       A*         Large       2179341       VC2027       C       G*         Large       2358194       VC2209       C       CC*         Large       2379972       VC2225       A       G*         Large       2612864       VC2437       C       CC*   | Large      | 553569   | VC0518          | C             | CC*            |
| Large       849965       VC0793m       G       GG*         Large       1087962       VC1018       T       GT*         Large       1183050       VC1113       A       G*         Large       1237259       VC1165       C       G*         Large       1237260       VC1165       G       C*         Large       1389484       VC1307       C       CC*         Large       1486534       VC1395       C       CC*         Large       2076300       VC1925       A       G*         Large       2153724       VC2001       T       A*         Large       2179341       VC2027       C       G*         Large       2358194       VC2209       C       CC*         Large       2379972       VC2225       A       G*         Large       2612864       VC2437       C       CC*  | Large      | 555404   | VC0521          | G             | $GG^*$         |
| Large       1087962       VC1018       T       GT*         Large       1183050       VC1113       A       G*         Large       1237259       VC1165       C       G*         Large       1237260       VC1165       G       C*         Large       1389484       VC1307       C       CC*         Large       1486534       VC1395       C       CC*         Large       2076300       VC1925       A       G*         Large       2153724       VC2001       T       A*         Large       2179341       VC2027       C       G*         Large       2358194       VC2209       C       CC*         Large       2379972       VC2225       A       G*         Large       2612864       VC2437       C       CC*   | Large      | 663766   | VC0624          | T             | $A^*$          |
| Large       1183050       VC1113       A       G*         Large       1237259       VC1165       C       G*         Large       1237260       VC1165       G       C*         Large       1389484       VC1307       C       CC*         Large       1486534       VC1395       C       CC*         Large       2076300       VC1925       A       G*         Large       2153724       VC2001       T       A*         Large       2179341       VC2027       C       G*         Large       2358194       VC2209       C       CC*         Large       2379972       VC2225       A       G*         Large       2612864       VC2437       C       CC*  | Large      | 849965   | VC0793m         | G             | $GG^*$         |
| Large       1237259       VC1165       C       G*         Large       1237260       VC1165       G       C*         Large       1389484       VC1307       C       CC*         Large       1486534       VC1395       C       CC*         Large       2076300       VC1925       A       G*         Large       2153724       VC2001       T       A*         Large       2179341       VC2027       C       G*         Large       2358194       VC2209       C       CC*         Large       2379972       VC2225       A       G*         Large       2612864       VC2437       C       CC*  | Large      | 1087962  | VC1018          | T             | GT*            |
| Large       1237260       VC1165       G       C*         Large       1389484       VC1307       C       CC*         Large       1486534       VC1395       C       CC*         Large       2076300       VC1925       A       G*         Large       2153724       VC2001       T       A*         Large       2179341       VC2027       C       G*         Large       2358194       VC2209       C       CC*         Large       2379972       VC2225       A       G*         Large       2612864       VC2437       C       CC*  | Large      | 1183050  | VC1113          | A             | $G^*$          |
| Large       1389484       VC1307       C       CC*         Large       1486534       VC1395       C       CC*         Large       2076300       VC1925       A       G*         Large       2153724       VC2001       T       A*         Large       2179341       VC2027       C       G*         Large       2358194       VC2209       C       CC*         Large       2379972       VC2225       A       G*         Large       2612864       VC2437       C       CC*  | Large      | 1237259  | VC1165          | C             | $G^*$          |
| Large       1486534       VC1395       C       CC*         Large       2076300       VC1925       A       G*         Large       2153724       VC2001       T       A*         Large       2179341       VC2027       C       G*         Large       2358194       VC2209       C       CC*         Large       2379972       VC2225       A       G*         Large       2612864       VC2437       C       CC*   | Large      | 1237260  | VC1165          | G             | C*             |
| Large       2076300       VC1925       A       G*         Large       2153724       VC2001       T       A*         Large       2179341       VC2027       C       G*         Large       2358194       VC2209       C       CC*         Large       2379972       VC2225       A       G*         Large       2612864       VC2437       C       CC*  | Large      | 1389484  | VC1307          | C             | CC*            |
| Large       2153724       VC2001       T       A*         Large       2179341       VC2027       C       G*         Large       2358194       VC2209       C       CC*         Large       2379972       VC2225       A       G*         Large       2612864       VC2437       C       CC*  | Large      | 1486534  | VC1395          | C             | CC*            |
| Large       2179341       VC2027       C       G*         Large       2358194       VC2209       C       CC*         Large       2379972       VC2225       A       G*         Large       2612864       VC2437       C       CC*  | Large      | 2076300  | VC1925          | A             | $G^*$          |
| Large       2358194       VC2209       C       CC*         Large       2379972       VC2225       A       G*         Large       2612864       VC2437       C       CC*  | Large      | 2153724  | VC2001          | T             | A*             |
| Large 2379972 <i>VC2225</i> A G* Large 2612864 <i>VC2437</i> C CC*   | Large      | 2179341  | VC2027          | C             | $G^*$          |
| Large 2612864 <i>VC2437</i> C CC*  | Large      | 2358194  | VC2209          | C             | CC*            |
|  | Large      | 2379972  | VC2225          | A             | $G^*$          |
| Large 2881400 <i>VC2710</i> C A*   | Large      | 2612864  | VC2437          | C             | CC*            |
|  | Large      | 2881400  | VC2710          | C             | A*             |

| Large | 162660  | VC0165                    | N                 | C*                            |
|-------|---------|---------------------------|-------------------|-------------------------------|
| Large | 172531  | VC0172                    | K                 | $T^*$                         |
| Large | 364992  | VC0343                    | K                 | G*                            |
| Large | 854836  | VC0798                    | K                 | $G^*$                         |
| Large | 1011632 | VC0947                    | W                 | $\operatorname{\textbf{A}}^*$ |
| Large | 1561424 | VC1451                    | K                 | $\operatorname{G}^*$          |
| Large | 1561926 | VC1451                    | S                 | $\mathbf{C}^*$                |
| Large | 1561942 | VC1451                    | S                 | $\operatorname{G}^*$          |
| Large | 1561949 | VC1451                    | W                 | $\operatorname{A}^*$          |
| Large | 1587146 | VC1482                    | K                 | $G^*$                         |
| Large | 1587147 | VC1482                    | Y                 | $\operatorname{T}^*$          |
| Large | 1587148 | VC1482                    | Y                 | $C^*$                         |
| Large | 1587149 | VC1482                    | Y                 | $\operatorname{T}^*$          |
| Large | 1587765 | VC1482                    | W                 | $\operatorname{T}^*$          |
| Large | 1696639 | VC1585                    | Y                 | $C^*$                         |
| Large | 1696645 | VC1585                    | Y                 | $C^*$                         |
| Large | 2122955 | VC1971                    | R                 | $\operatorname{G}^*$          |
| Large | 2122956 | VC1971                    | M                 | $\operatorname{C}^*$          |
| Large | 2378839 | VC2224                    | N                 | $G^*$                         |
| Large | 2590300 | VC2416                    | R                 | $\operatorname{A}^*$          |
| Large | 2682957 | VC2497                    | R                 | $G^*$                         |
| Large | 2682978 | VC2497                    | S                 | $G^*$                         |
| Large | 764702  | between 16S and 23S       | K                 | $\text{G}^{\dagger}$          |
| Large | 57690   | 23S                       | Y                 | $\text{C}^{\dagger}$          |
| Large | 57714   | 23S                       | K                 | $\text{G}^{\dagger}$          |
| Large | 167458  | tRNA-pro                  | R                 | $\text{G}^{\dagger}$          |
| Large | 328674  | 23S                       | Y                 | $\textbf{C}^{\dagger}$        |
| Large | 1670764 | between VC1558 and VC1559 | W                 | $\mathrm{T}^{\dagger}$        |
| Large | 1735241 | VC1620(pseudogene)        | M                 | $\text{C}^{\dagger}$          |
| Large | 764715  | between 16S and 23S       | $R^{\S}$          |                               |
| Large | 2681238 | 16S                       | $R^{\S}$          |                               |
| Large | 2928036 | between 5S and 23S        | $K^{\S}$          |                               |
| Large | 2928147 | 23S                       | $\mathbf{W}^{\S}$ |                               |
| Small | 17393   | VCA0015 (VCA0016)         | C                 | none                          |
| Small | 53608   | VCA0044 (VCA0045)         | T                 | none                          |
| Small | 57465   | VCA0049 (VCA0050)         | C                 | GC                            |
| Small | 144626  | VCA0129                   | A                 | none                          |
|       |         |                           |                   |                               |

| Small         186754         VCA0168 (VCA0169,0170)         C         none           Small         186755         VCA0168 (VCA0169,0170)         C         none           Small         186759         VCA0168 (VCA0169,0170)         G         none           Small         186760         VCA0168 (VCA0169,0170)         G         none           Small         255374         VCA0232         G         G           Small         279450         VCA0260 (VCA0261)         C         C         C           Small         299080         VCA0280         G         none           Small         299080         VCA0280         C         none           Small         299080         VCA0280         C         none           Small         355094         VCA0597         G         none           Small         686744         VCA07097         G         none           Small         969852         VCA1023         T         T         T           Small         1036512         VCA1082 (VCA1023)         T         T         T           Small         1036512         VCA0076         T         G*         G*           Small         85485<  | Small | 186168  | VCA0168 (VCA0169,0170)                | G | GG     |
|---|-------|---------|---------------------------------------|---|--------|
| Small         186755         VCA0168 (VCA0169,0170)         C         none           Small         186759         VCA0168 (VCA0169,0170)         G         none           Small         186760         VCA0168 (VCA0169,0170)         G         none           Small         255374         VCA0232         G         G           Small         277301         VCA0257         A         G           Small         299055         VCA0280         G         none           Small         299080         VCA0280         C         none           Small         474527         VCA0537         C         CC           Small         535094         VCA0596 (VCA0597)         G         none           Small         686744         VCA0740a         T         CT           Small         969852         VCA1022 (VCA1023)         T         TT           Small         1036512         VCA1082 (VCA1083)         C         GC           Small         1062459         VCA10166 (VCA1107)         C         GC           Small         1062459         VCA1082 (VCA1083)         C         GC           Small         1162561         VCA10717         C  |       |         |                                       |   |        |
| Small         186759         VCA0168 (VCA0169,0170)         G         none           Small         186760         VCA0168 (VCA0169,0170)         G         none           Small         255374         VCA0232         G         GG           Small         277301         VCA0257         A         G           Small         279450         VCA0260 (VCA0261)         C         CC           Small         299055         VCA0280         G         none           Small         299080         VCA0237         C         C           Small         535094         VCA0537         C         CC           Small         686744         VCA0740a         T         CT           Small         686744         VCA0740a         T         CT           Small         969852         VCA1022 (VCA1023)         T         TT           Small         1062459         VCA1082 (VCA1083)         C         GC           Small         1062459         VCA1060 (VCA1107)         C         GC           Small         152561         VCA0076         T         G*           Small         161478         VCA00745         C         A*  |       |         | ,                                     |   |        |
| Small         186760         VCA0168 (VCA0169,0170)         G         none           Small         255374         VCA0232         G         GG           Small         277301         VCA0257         A         G           Small         279450         VCA0260 (VCA0261)         C         C           Small         299055         VCA0280         G         none           Small         299080         VCA0237         C         CC           Small         474527         VCA0537         C         CC           Small         535094         VCA0740a         T         CT           Small         686744         VCA0740a         T         CT           Small         969852         VCA1022 (VCA1023)         T         TT           Small         1036512         VCA1082 (VCA1083)         C         GC           Small         1062459         VCA1062 (VCA1083)         C         GC           Small         1062459         VCA1066 (VCA1107)         C         GC           Small         152561         VCA0076         T         G*           Small         152561         VCA0076         T         G*           S   |       |         | · · · · · · · · · · · · · · · · · · · |   |        |
| Small         255374         VCA0232         G         GG           Small         277301         VCA0267         A         G           Small         279450         VCA0260 (VCA0261)         C         CC           Small         299055         VCA0280         C         none           Small         299080         VCA0280         C         none           Small         474527         VCA0537         C         CC           Small         535094         VCA0596 (VCA0397)         G         none           Small         686744         VCA0740a         T         CT           Small         1036512         VCA1022 (VCA1023)         T         TT           Small         1036512         VCA1082 (VCA1083)         C         GC           Small         1062459         VCA1106 (VCA1107)         C         GC           Small         1062459         VCA1060 (VCA1107)         C         GC           Small         152561         VCA0076         T         G*           Small         152561         VCA0137         C         A*           Small         472297         VCA0629         C         G*           Sma   |       |         | · · · · · · · · · · · · · · · · · · · |   |        |
| Small         277301         VCA0257         A         G           Small         279450         VCA0260 (VCA0261)         C         CC           Small         299055         VCA0280         G         none           Small         299080         VCA0280         C         none           Small         474527         VCA0537         C         CC           Small         535094         VCA0596 (VCA0597)         G         none           Small         686744         VCA0740a         T         CT           Small         969852         VCA1022 (VCA1023)         T         TT           Small         1062459         VCA1106 (VCA1107)         C         GC           Small         1062459         VCA1106 (VCA1083)         C         GC           Small         1062459         VCA1106 (VCA1077)         C         GC           Small         152561         VCA0076         T         G**           Small         152561         VCA0137         C         A*           Small         161478         VCA0629         C         G**           Small         472297         VCA0534         A         none* <td< td=""><td></td><td></td><td>· · · · · · · · · · · · · · · · · · ·</td><td></td><td></td></td<> |       |         | · · · · · · · · · · · · · · · · · · · |   |        |
| Small         279450         VCA0260 (VCA0261)         C         CC           Small         299055         VCA0280         G         none           Small         299080         VCA0280         C         none           Small         474527         VCA0537         C         CC           Small         535094         VCA0596 (VCA0597)         G         none           Small         686744         VCA0740a         T         CT           Small         969852         VCA1022 (VCA1033)         T         TT           Small         1036512         VCA1082 (VCA1083)         C         GC           Small         1062459         VCA1106 (VCA1107)         C         GC           Small         1062459         VCA1106 (VCA1107)         C         GC           Small         294983         VCA0276         G         GC*           Small         294983         VCA0076         T         G*           Small         152561         VCA00137         C         A*           Small         152561         VCA0137         C         A*           Small         472297         VCA0629         G         C*           S   |       |         |                                       |   |        |
| Small         299055         VCA0280         G         none           Small         299080         VCA0280         C         none           Small         474527         VCA0537         C         CC           Small         535094         VCA0596 (VCA0597)         G         none           Small         686744         VCA0740a         T         CT           Small         969852         VCA1022 (VCA1023)         T         TT           Small         1036512         VCA1082 (VCA1083)         C         GC           Small         1062459         VCA1106 (VCA1107)         C         GC           Small         1062459         VCA1062 (VCA1083)         C         GC           Small         1062459         VCA1066 (VCA1107)         C         GC           Small         294983         VCA0076         T         G         GC           Small         152561         VCA0076         T         G*         GC*           Small         152561         VCA0137         C         A*         none*           Small         472297         VCA0534         A         none*           Small         566512         VCA0629  |       |         |                                       |   |        |
| Small         299080         VCA0280         C         none           Small         474527         VCA0537         C         CC           Small         535094         VCA0596 (VCA0597)         G         none           Small         686744         VCA0740a         T         CT           Small         969852         VCA1022 (VCA1023)         T         TT           Small         1036512         VCA1082 (VCA1083)         C         GC           Small         1062459         VCA1062 (VCA1083)         C         GC           Small         1062459         VCA1067 (VCA1107)         C         GC           Small         194983         VCA0276         G         GC*           Small         85485         VCA00746         T         G*           Small         152561         VCA0137         C         A*           Small         161478         VCA0146         C         G*           Small         472297         VCA06534         A         none*           Small         566512         VCA0629         C         G*           Small         69601         VCA0674         C         GC*           Small  |       |         | · · · · · · · · · · · · · · · · · · · |   |        |
| Small         474527         VCA0537         C         CC           Small         535094         VCA0596 (VCA0597)         G         none           Small         686744         VCA0740a         T         CT           Small         969852         VCA1022 (VCA1023)         T         TT           Small         1036512         VCA1082 (VCA1083)         C         GC           Small         1062459         VCA1106 (VCA1107)         C         GC           Small         1062459         VCA1062 (VCA1077)         C         GC           Small         194983         VCA0276         G         GC*           Small         85485         VCA00746         T         G*           Small         152561         VCA0137         C         A*           Small         161478         VCA0146         C         G*           Small         472297         VCA06234         A         none*           Small         566512         VCA0629         C         G*           Small         588148         VCA0653         C         G*           Small         69061         VCA06674         C         GC*           Small   |       |         |                                       |   |        |
| Small         535094         VCA0596 (VCA0597)         G         none           Small         686744         VCA0740a         T         CT           Small         969852         VCA1022 (VCA1023)         T         TT           Small         1036512         VCA1082 (VCA1083)         C         GC           Small         1062459         VCA106 (VCA1107)         C         GC           Small         294983         VCA0276         G         G         G*           Small         35485         VCA0076         T         G*         *           Small         152561         VCA0137         C         A*         none*           Small         161478         VCA0146         C         G*         *           Small         161478         VCA0629         C         G*         *           Small         566512         VCA0629         C         G*         *           Small         588148         VCA0653         C         G*         *           Small         699601         VCA0674         C         GC*         *           Small         69901         VCA0692         G         G*         * <t< td=""><td></td><td></td><td></td><td></td><td></td></t<>   |       |         |                                       |   |        |
| Small         686744         VCA0740a         T         CT           Small         969852         VCA1022 (VCA1023)         T         TT           Small         1036512         VCA1082 (VCA1083)         C         GC           Small         1062459         VCA1106 (VCA1107)         C         GC           Small         294983         VCA0276         G         GC*           Small         85485         VCA0076         T         G*           Small         152561         VCA0137         C         A*           Small         161478         VCA0146         C         G*           Small         161478         VCA0629         C         G*           Small         472297         VCA0629         C         G*           Small         566512         VCA0629         C         G*           Small         566513         VCA0629         G         C*           Small         69601         VCA0674         C         GC*           Small         631352         VCA0692         G         G*           Small         690275         VCA0692         G         G*           Small         980511   |       |         |                                       |   |        |
| Small         969852         VCA1022 (VCA1033)         T         TT           Small         1036512         VCA1082 (VCA1083)         C         GC           Small         1062459         VCA1106 (VCA1107)         C         GC           Small         294983         VCA0276         G         GG*           Small         85485         VCA0076         T         G*           Small         152561         VCA0137         C         A*           Small         161478         VCA0146         C         G*           Small         472297         VCA0534         A         none*           Small         566512         VCA0629         C         G*           Small         566513         VCA0629         G         C*           Small         588148         VCA0653         C         G*           Small         690601         VCA0674         C         GC*           Small         631405         VCA0692         G         GG*           Small         690275         VCA0745         A         none*           Small         980511         VCA1031         C         G*           Small         980512 <td></td> <td></td> <td>· · · · · · · · · · · · · · · · · · ·</td> <td></td> <td></td>                 |       |         | · · · · · · · · · · · · · · · · · · · |   |        |
| Small         1036512         VCA1082 (VCA1083)         C         GC           Small         1062459         VCA1106 (VCA1107)         C         GC           Small         294983         VCA0276         G         GG*           Small         85485         VCA0076         T         G*           Small         152561         VCA0137         C         A*           Small         161478         VCA0146         C         G*           Small         472297         VCA0534         A         none*           Small         566512         VCA0629         C         G*           Small         566513         VCA0629         G         C*           Small         588148         VCA0653         C         G*           Small         609601         VCA0674         C         GC*           Small         631352         VCA0692         G         GG*           Small         690275         VCA0745         A         none*           Small         980512         VCA0938         T         GT*           Small         980511         VCA1031         C         G*           Small         980512   |       |         |                                       |   |        |
| Small         1062459         VCA1106 (VCA1107)         C         GC           Small         294983         VCA0276         G         GG*           Small         85485         VCA0076         T         G*           Small         152561         VCA0137         C         A*           Small         161478         VCA0146         C         G*           Small         472297         VCA0534         A         none*           Small         566512         VCA0629         C         G*           Small         566513         VCA0629         G         C*           Small         588148         VCA0653         C         G*           Small         690601         VCA0674         C         GC*           Small         631352         VCA0692         G         GC*           Small         631405         VCA0692         G         GG*           Small         690275         VCA07455         A         none*           Small         980512         VCA0938         T         GT*           Small         980511         VCA1031         G         C*           Small         980632         VCA1   |       |         | · · · · · · · · · · · · · · · · · · · |   |        |
| Small         294983         VCA0276         G         GG*           Small         85485         VCA0076         T         G*           Small         152561         VCA0137         C         A*           Small         161478         VCA0146         C         G*           Small         472297         VCA0534         A         none*           Small         566512         VCA0629         C         G*           Small         566513         VCA0629         G         C*           Small         566513         VCA0629         G         C*           Small         69601         VCA0653         C         G*           Small         609601         VCA0674         C         GC*           Small         631352         VCA0692         G         GG*           Small         631405         VCA0692         G         GG*           Small         690275         VCA0745         A         none*           Small         980511         VCA0938         T         GT*           Small         980511         VCA1031         C         G*           Small         980632         VCA1031   | Small | 1062459 |                                       |   |        |
| Small         85485         VCA0076         T         G*           Small         152561         VCA0137         C         A*           Small         161478         VCA0146         C         G*           Small         472297         VCA0534         A         none*           Small         566512         VCA0629         C         G*           Small         566513         VCA0629         G         C*           Small         588148         VCA0653         C         G*           Small         609601         VCA0674         C         GC*           Small         631352         VCA0692         G         G*           Small         631405         VCA0692         G         G*           Small         690275         VCA0745         A         none*           Small         980538         VCA0938         T         GT*           Small         980511         VCA1031         C         G*           Small         980512         VCA1031         G         C*           Small         980632         VCA1031         G         C*           Small         980877         VCA1031   |       |         |                                       |   |        |
| Small         161478         VCA0146         C         G*           Small         472297         VCA0534         A         none*           Small         566512         VCA0629         C         G*           Small         566513         VCA0629         G         C*           Small         588148         VCA0653         C         G*           Small         609601         VCA0674         C         GC*           Small         631352         VCA0692         C         GC*           Small         631405         VCA0692         G         GG*           Small         690275         VCA0692         G         GG*           Small         889858         VCA0938         T         GT*           Small         980512         VCA0951         C         T*           Small         980511         VCA1031         G         C*           Small         980512         VCA1031         G         C*           Small         980633         VCA1031         G         C*           Small         980877         VCA1031         T         GT*           Small         980887         VCA1043   |       |         |                                       |   |        |
| Small         472297         VCA0534         A         none*           Small         566512         VCA0629         C         G*           Small         566513         VCA0629         G         C*           Small         588148         VCA0653         C         G*           Small         609601         VCA0674         C         GC*           Small         631352         VCA0692         C         GC*           Small         631405         VCA0692         G         GG*           Small         690275         VCA0745         A         none*           Small         889858         VCA0938         T         GT*           Small         980511         VCA0951         C         T*           Small         980511         VCA1031         C         G*           Small         980632         VCA1031         G         C*           Small         980633         VCA1031         G         C*           Small         980877         VCA1031         T         GT*           Small         981512         VCA1031         A         none*           Small         993674         VCA10433 <td>Small</td> <td>152561</td> <td>VCA0137</td> <td>С</td> <td>A*</td>  | Small | 152561  | VCA0137                               | С | A*     |
| Small         566512         VCA0629         C         G*           Small         566513         VCA0629         G         C*           Small         588148         VCA0653         C         G*           Small         609601         VCA0674         C         GC*           Small         631352         VCA0692         C         GC*           Small         631405         VCA0692         G         GG*           Small         690275         VCA0745         A         none*           Small         889858         VCA0938         T         GT*           Small         901045         VCA0951         C         T*           Small         980511         VCA1031         C         G*           Small         980512         VCA1031         G         C*           Small         980632         VCA1031         G         C*           Small         980877         VCA1031         G         C*           Small         980887         VCA1031         T         GT*           Small         981512         VCA1043         C         none*           Small         993674         VCA1043   | Small | 161478  | VCA0146                               | С | $G^*$  |
| Small         566513         VCA0629         G         C*           Small         588148         VCA0653         C         G*           Small         609601         VCA0674         C         GC*           Small         631352         VCA0692         C         GC*           Small         631405         VCA0692         G         GG*           Small         690275         VCA0745         A         none*           Small         889858         VCA0938         T         GT*           Small         901045         VCA0951         C         T*           Small         980511         VCA1031         C         G*           Small         980512         VCA1031         G         C*           Small         980632         VCA1031         G         C*           Small         980633         VCA1031         G         none*           Small         980877         VCA1031         T         GT*           Small         980877         VCA1031         A         none*           Small         993644         VCA1043         C         none*           Small         993684         VCA1043 </td <td>Small</td> <td>472297</td> <td>VCA0534</td> <td>A</td> <td>none*</td>                                | Small | 472297  | VCA0534                               | A | none*  |
| Small         588148         VCA0653         C         G*           Small         609601         VCA0674         C         GC*           Small         631352         VCA0692         C         GC*           Small         631405         VCA0692         G         GG*           Small         690275         VCA0745         A         none*           Small         889858         VCA0938         T         GT*           Small         980518         VCA0951         C         T*           Small         980511         VCA1031         C         G*           Small         980512         VCA1031         G         C*           Small         980632         VCA1031         G         C*           Small         980633         VCA1031         G         none*           Small         980877         VCA1031         T         GT*           Small         980887         VCA1031         A         none*           Small         993644         VCA1043         C         none*           Small         993684         VCA1043         C         none*           Small         993700         VCA104   | Small | 566512  | VCA0629                               | C | $G^*$  |
| Small         609601         VCA0674         C         GC*           Small         631352         VCA0692         C         GC*           Small         631405         VCA0692         G         GG*           Small         690275         VCA0745         A         none*           Small         889858         VCA0938         T         GT*           Small         980518         VCA0951         C         T*           Small         980511         VCA1031         C         G*           Small         980512         VCA1031         G         C*           Small         980632         VCA1031         G         C*           Small         980633         VCA1031         G         none*           Small         980877         VCA1031         G         none*           Small         980887         VCA1031         A         none*           Small         993674         VCA1043         C         none*           Small         993700         VCA1043         C         none*           Small         993701         VCA1043         T         none*           Small         1004685  | Small | 566513  | VCA0629                               | G | C*     |
| Small         631352         VCA0692         C         GC*           Small         631405         VCA0692         G         GG*           Small         690275         VCA0745         A         none*           Small         889858         VCA0938         T         GT*           Small         901045         VCA0951         C         T*           Small         980511         VCA1031         C         G*           Small         980512         VCA1031         G         C*           Small         980632         VCA1031         G         C*           Small         980633         VCA1031         G         C*           Small         980877         VCA1031         G         none*           Small         980887         VCA1031         A         none*           Small         993674         VCA1043         C         none*           Small         993684         VCA1043         C         none*           Small         993700         VCA1043         T         none*           Small         993701         VCA1043         T         none*           Small         1004685         V   | Small | 588148  | VCA0653                               | C | $G^*$  |
| Small         631405         VCA0692         G         GG*           Small         690275         VCA0745         A         none*           Small         889858         VCA0938         T         GT*           Small         901045         VCA0951         C         T*           Small         980511         VCA1031         C         G*           Small         980512         VCA1031         G         C*           Small         980632         VCA1031         G         C*           Small         980633         VCA1031         G         none*           Small         980877         VCA1031         G         none*           Small         980887         VCA1031         A         none*           Small         993644         VCA1043         C         none*           Small         993684         VCA1043         C         A           Small         993700         VCA1043         C         none*           Small         993701         VCA1043         T         none*           Small         1004685         VCA1055         T         G*  | Small | 609601  | VCA0674                               | C | GC*    |
| Small         690275         VCA0745         A         none*           Small         889858         VCA0938         T         GT*           Small         901045         VCA0951         C         T*           Small         980511         VCA1031         C         G*           Small         980512         VCA1031         G         C*           Small         980632         VCA1031         C         G*           Small         980633         VCA1031         G         C*           Small         980877         VCA1031         G         none*           Small         980887         VCA1031         T         GT*           Small         981512         VCA1031         A         none*           Small         993674         VCA1043         C         none*           Small         993684         VCA1043         C         A           Small         993700         VCA1043         C         none*           Small         993701         VCA1043         T         none*           Small         1004685         VCA1055         T         G*   | Small | 631352  | VCA0692                               | C | GC*    |
| Small       889858       VCA0938       T       GT*         Small       901045       VCA0951       C       T*         Small       980511       VCA1031       C       G*         Small       980512       VCA1031       G       C*         Small       980632       VCA1031       G       C*         Small       980633       VCA1031       G       none*         Small       980877       VCA1031       G       none*         Small       980887       VCA1031       T       GT*         Small       981512       VCA1043       C       none*         Small       993674       VCA1043       C       none*         Small       993700       VCA1043       C       none*         Small       993701       VCA1043       T       none*         Small       993701       VCA1043       T       none*         Small       1004685       VCA1055       T       G*   | Small | 631405  | VCA0692                               | G | $GG^*$ |
| Small         901045         VCA0951         C         T*           Small         980511         VCA1031         C         G*           Small         980512         VCA1031         G         C*           Small         980632         VCA1031         G         C*           Small         980633         VCA1031         G         none*           Small         980877         VCA1031         G         none*           Small         980887         VCA1031         T         GT*           Small         981512         VCA1031         A         none*           Small         993674         VCA1043         C         none*           Small         993684         VCA1043         C         none*           Small         993700         VCA1043         C         none*           Small         993701         VCA1043         T         none*           Small         1004685         VCA1055         T         G*  | Small | 690275  | VCA0745                               | A | none*  |
| Small       980511       VCA1031       C       G*         Small       980512       VCA1031       G       C*         Small       980632       VCA1031       C       G*         Small       980633       VCA1031       G       C*         Small       980877       VCA1031       G       none*         Small       980887       VCA1031       T       GT*         Small       981512       VCA1031       A       none*         Small       993674       VCA1043       C       none*         Small       993684       VCA1043       C       A         Small       993700       VCA1043       C       none*         Small       993701       VCA1043       T       none*         Small       1004685       VCA1055       T       G*   | Small | 889858  | VCA0938                               | T | GT*    |
| Small       980512       VCA1031       G       C*         Small       980632       VCA1031       C       G*         Small       980633       VCA1031       G       none*         Small       980877       VCA1031       G       none*         Small       980887       VCA1031       T       GT*         Small       981512       VCA1031       A       none*         Small       993674       VCA1043       C       none*         Small       993684       VCA1043       C       A         Small       993700       VCA1043       C       none*         Small       993701       VCA1043       T       none*         Small       1004685       VCA1055       T       G*  | Small | 901045  | VCA0951                               | C | $T^*$  |
| Small       980632       VCA1031       C       G*         Small       980633       VCA1031       G       C*         Small       980877       VCA1031       G       none*         Small       980887       VCA1031       T       GT*         Small       981512       VCA1031       A       none*         Small       993674       VCA1043       C       none*         Small       993684       VCA1043       C       A         Small       993700       VCA1043       C       none*         Small       993701       VCA1043       T       none*         Small       1004685       VCA1055       T       G*   | Small | 980511  | VCA1031                               | C | $G^*$  |
| Small       980633       VCA1031       G       C*         Small       980877       VCA1031       T       GT*         Small       980887       VCA1031       T       GT*         Small       981512       VCA1031       A       none*         Small       993674       VCA1043       C       none*         Small       993684       VCA1043       C       A         Small       993700       VCA1043       C       none*         Small       993701       VCA1043       T       none*         Small       1004685       VCA1055       T       G*   | Small | 980512  | VCA1031                               | G | C*     |
| Small       980877       VCA1031       G       none*         Small       980887       VCA1031       T       GT*         Small       981512       VCA1031       A       none*         Small       993674       VCA1043       C       none*         Small       993684       VCA1043       C       A         Small       993700       VCA1043       C       none*         Small       993701       VCA1043       T       none*         Small       1004685       VCA1055       T       G*   | Small | 980632  | VCA1031                               | C | $G^*$  |
| Small       980887       VCA1031       T       GT*         Small       981512       VCA1031       A       none*         Small       993674       VCA1043       C       none*         Small       993684       VCA1043       C       A         Small       993700       VCA1043       C       none*         Small       993701       VCA1043       T       none*         Small       1004685       VCA1055       T       G*  | Small | 980633  | VCA1031                               | G | C*     |
| Small       981512       VCA1031       A       none*         Small       993674       VCA1043       C       none*         Small       993684       VCA1043       C       A         Small       993700       VCA1043       C       none*         Small       993701       VCA1043       T       none*         Small       1004685       VCA1055       T       G*   | Small | 980877  | VCA1031                               | G | none*  |
| Small       993674       VCA1043       C       none*         Small       993684       VCA1043       C       A         Small       993700       VCA1043       C       none*         Small       993701       VCA1043       T       none*         Small       1004685       VCA1055       T       G*  | Small | 980887  | VCA1031                               | T | GT*    |
| Small       993684       VCA1043       C       A         Small       993700       VCA1043       C       none*         Small       993701       VCA1043       T       none*         Small       1004685       VCA1055       T       G*   | Small | 981512  | VCA1031                               | A | none*  |
| Small       993700       VCA1043       C       none*         Small       993701       VCA1043       T       none*         Small       1004685       VCA1055       T       G*  | Small | 993674  | VCA1043                               | C | none*  |
| Small         993701         VCA1043         T         none*           Small         1004685         VCA1055         T         G*   | Small | 993684  | VCA1043                               | C | A      |
| Small 1004685 <i>VCA1055</i> T G*   | Small | 993700  | VCA1043                               | C | none*  |
|   | Small | 993701  | VCA1043                               | T | none*  |
| Small 1045002 <i>VCA1089</i> G GG*  | Small | 1004685 | VCA1055                               | T | $G^*$  |
|   | Small | 1045002 | VCA1089                               | G | GG*    |

| Small | 1060870 | VCA1104                     | T      | CT*                           |
|-------|---------|-----------------------------|--------|-------------------------------|
| Small | 1060888 | VCA1104                     | T      | CT*                           |
| Small | 646810  | VCA0705                     | Y      | $\operatorname{T}^*$          |
| Small | 366180  | VCA0387                     | Y      | $\operatorname{C}^*$          |
| Small | 413177  | VCA0464                     | R      | $\operatorname{\textbf{A}}^*$ |
| Small | 356433  | between VCA0368 and VCA0369 | $Y^\P$ |                               |

<sup>\*</sup> In each case the base has been corrected to that obtained from the N16961 ORF clone collection submitted by the Harvard Institute of Proteomics to the NCBI web site and confirmed by the unfinished MO10 genome.

others were corrected by resequencing.

 $<sup>\</sup>dagger$  In each case the M66-2 and O395 base at the position are the same and consistent with the N16961 IUPAC base , and N16961 was corrected to the M66-2/O395 base.

<sup>§</sup> For these 4 bases in the large chromosome, 2 are in a region absent in M66-2 and the other 2 are different at the position for both M66-2 and O395. However all are consistent with the N16961 IUPAC base. Because the 4 are in rrn regions, it is difficult to determine the corresponding region in other uncompleted Vibrio genomes, and the IUPAC codes were not changed. The ambiguity had no influence on our conclusions as SNPs in rrn regions were not used in SNP analysis.

<sup>¶</sup> Base is in intergenic region (so no Harvard Institute clone data) in a N16961-specific region (relative to M66-2 and O395) of the integron, so can not be corrected. The ambiguity had no influence on our conclusions as SNPs in this region not scored.