

**Table S1. List of oligonucleotides**

| Yeast strain construction |                                                                                                             |                                                     |
|---------------------------|-------------------------------------------------------------------------------------------------------------|-----------------------------------------------------|
| Name                      | Sequence                                                                                                    |                                                     |
| dSTE20up-URA3_fw          | 5'-GCAAGCAACCCAAACTTCTTCCCTTCACTGCCTCACACCCCATCCTAAATATC<br>CCACAAGATCCTCGACTAATACAAGAATTTTTTGTTCTTTTTTTTGA |                                                     |
| dSTE20up-URA3_rv          | 5'-CTTGTGGGATATTTAGGATGGGGTAATAACTGATATAATT                                                                 |                                                     |
| dSTE20dn_fw               | 5'-AATTATATCAGTTATTACCCCATCCTAAATATCCCACAAGATCCTCGACTAATAC<br>AAGAAACGTAGCAAGCAGGGTACAC                     |                                                     |
| dSTE20dn_rv               | 5'-CTCCTTCGTTACATAGAACGCAGACAGATG                                                                           |                                                     |
| dSTE11up-URA3_fw          | 5'-TATTCATATTTACACACATGCATAAAGAGAGACCACTTAATAAAGCTAGTATGAT<br>AAGATCACCGGTAGACGAAATATACTTTTTTGTTCTTTTTTTTGA |                                                     |
| dSTE11up-URA3_rv          | 5'-ATCTTATCATACTAGCTTTAGGGTAATAACTGATATAATT                                                                 |                                                     |
| dSTE11dn_fw               | 5'-AATTATATCAGTTATTACCCTAAAGCTAGTATGATAAGATCACCGGTAGACGAA<br>ATATACAAAAGGGCTACTTATTAATT                     |                                                     |
| dSTE11dn_rv               | 5'-TCACCTCGCAAAGAAAGGCCTGTTTCTTCG                                                                           |                                                     |
| dSTE2up-URA3_fw           | 5'-TTTCTTTTCACCTGCTCTGGCTATAATTATAATTGGTTACTTAAAAATGCACCGT<br>TAAGAACCATATCCAAGAATCAAATTTTTTGTTCTTTTTTTTGA  |                                                     |
| dSTE2up-URA3_rv           | 5'-TCTTAACGGTGCATTTTTAAGGGTAATAACTGATATAATT                                                                 |                                                     |
| dSTE2dn_fw                | 5'-AATTATATCAGTTATTACCCTTAAAAATGCACCGTTAAGAACCATATCCAAGAAT<br>CAAATCAAATTTACGGCTTTGAAAAAGTAATTCGTGACCTTC    |                                                     |
| dSTE2dn_rv                | 5'-AAGATTAACTGTATATATTGCCTGAGAGTTCTAGATCATG                                                                 |                                                     |
| Plasmid construction      |                                                                                                             |                                                     |
| Name                      | Sequence                                                                                                    |                                                     |
| o1                        | SacII_PHO5p_fw                                                                                              | 5'-AAAACCGCGGTTTTCTTTGTCTGCACAAAG                   |
| o2                        | XbaI_PHO5p_rv                                                                                               | 5'-AAAATCTAGATGGTAATCTCGAATTTGCTT                   |
| o3                        | SacII_TPI1p_fw                                                                                              | 5'-AAAACCGCGGCTACTTATTCCCTTCGAGAT                   |
| o4                        | XbaI_TPI1p_rv                                                                                               | 5'-AAAATCTAGATTTTAGTTTATGTATGTGTT                   |
| o5                        | SacII_TDH3p_fw                                                                                              | 5'-GGGGCCGCGGGAATAAAAAACACGCTTTTT                   |
| o6                        | XbaI_TDH3p_rv                                                                                               | 5'-CCCCTCTAGATTTGTTTGTTTATGTGTGTT                   |
| o7                        | XbaI_STE2_fw                                                                                                | 5'-AAAATCTAGAATGTCTGATGCGGCTCCTTC                   |
| o8                        | HindIII_lin_STE2_rv                                                                                         | 5'-GGGGAAGCTTGAACCTCCGCCACCTGATAAATTATTATTATCTTCAG  |
| o9                        | SpeI_STE2_fw                                                                                                | 5'-GGGGACTAGTATGTCTGATGCGGCTCCTTC                   |
| o10                       | EcoRI_lin_STE2_rv                                                                                           | 5'-GGGGGAATTCGGAACCTCCGCCACCTGATAAATTATTATTATCTTCAG |
| o11                       | HindIII_lin_STE2-304_rv                                                                                     | 5'-GGGGAAGCTTGAACCTCCGCCACCTGATTTGGATGCATTATTAGCAG  |
| o12                       | EcoRI_lin_STE2-304_rv                                                                                       | 5'-GGGGGAATTCGGAACCTCCGCCACCTGATTTGGATGCATTATTAGCAG |
| o13                       | HindIII_lin_STE2-236_rv                                                                                     | 5'-GGGGAAGCTTGAACCTCCGCCACCTGAAAGGAATCTTCTTGATCTAA  |
| o14                       | EcoRI_lin_STE2-236_rv                                                                                       | 5'-GGGGGAATTCGGAACCTCCGCCACCTGAAAGGAATCTTCTTGATCTAA |
| o15                       | XbaI_STE2-237_fw                                                                                            | 5'-GGGGTCTAGAATGGGTCTCAAGCAGTTCGA                   |
| o16                       | SpeI_STE2-237_fw                                                                                            | 5'-GGGGACTAGTATGGGTCTCAAGCAGTTCGA                   |
| o17                       | SpeI_HXT1sm_fw                                                                                              | 5'-GGGGACTAGTATGAACCAACTCCCGATCTAATATCTCCT          |
| o18                       | EcoRI_lin_HXT1_rv                                                                                           | 5'-GGGGGAATTCGGAACCTCCGCCACCTGATTTCTGCTAAACAACTCTTG |
| o19                       | XbaI_GABBR1a_fw                                                                                             | 5'-AAAATCTAGAATGTTGCTGCTGCTGCTACT                   |
| o20                       | HindIII lin GABBR1a rv                                                                                      | 5'-GGGGAAGCTTGAACCTCCGCCACCTGACTTATAAAGCAAATGCACTC  |

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**Supporting Information:**

**Rapid, facile detection of heterodimer partners for target human G-protein-coupled receptors using a modified split-ubiquitin membrane yeast two-hybrid system**

|     |                       |                                                     |
|-----|-----------------------|-----------------------------------------------------|
| o21 | SpeI_GABBR1a_fw       | 5'-AAAA <u>ACTAGT</u> ATGTTGCTGCTGCTGCTACT          |
| o22 | EcoRI_lin_GABBR1a_rv  | 5'-GGGGGAATTCGGAACCTCCGCCACCTGACTTATAAAGCAAATGCACTC |
| o23 | XbaI_GABBR2_fw        | 5'-AAAA <u>TCTAGA</u> ATGGCTTCCCCGCGGAGCTC          |
| o24 | HindIII_lin_GABBR2_rv | 5'-TTTTAAGCTTGAACCTCCGCCACCTGACAGGCCCGAGACCATGACTC  |
| o25 | SpeI_GABBR2_fw        | 5'-AAAA <u>ACTAGT</u> ATGGCTTCCCCGCGGAGCTC          |
| o26 | EcoRI_lin_GABBR2_rv   | 5'-TTTTGAATTCGGAACCTCCGCCACCTGACAGGCCCGAGACCATGACTC |
| o27 | XbaI_AGTR1_fw         | 5'-AAAA <u>TCTAGA</u> ATGATTCTCAACTCTTCTAC          |
| o28 | HindIII_lin_AGTR1_rv  | 5'-GGGGGAAGCTTGAACCTCCGCCACCTGACTCAACCTCAAAACATGGTG |
| o29 | SpeI_AGTR1_fw         | 5'-GGGG <u>ACTAGT</u> ATGATTCTCAACTCTTCTAC          |
| o30 | EcoRI_lin_AGTR1_rv    | 5'-GGGGGAATTCGGAACCTCCGCCACCTGACTCAACCTCAAAACATGGTG |
| o31 | SpeI_AGTR2_fw         | 5'-TTTT <u>ACTAGT</u> ATGAAGGGCAACTCCACCCT          |
| o32 | EcoRI_lin_AGTR2_rv    | 5'-TTTTGAATTCGGAACCTCCGCCACCTGAAGACACAAAGGTCTCCATTT |
| o33 | XbaI_MTNR1A_fw        | 5'-TTTTTCTAGAATGCAGGGCAACGGCAGCGC                   |
| o34 | HindIII_lin_MTNR1A_rv | 5'-GGGGGAAGCTTGAACCTCCGCCACCTGAAACGGAGTCCACCTTTACTA |
| o35 | SpeI_MTNR1A_fw        | 5'-TTTT <u>ACTAGT</u> ATGCAGGGCAACGGCAGCGC          |
| o36 | EcoRI_lin_MTNR1A_rv   | 5'-GGGGGAATTCGGAACCTCCGCCACCTGAAACGGAGTCCACCTTTACTA |
| o37 | SpeI_MTNR1B_fw        | 5'-GGGG <u>ACTAGT</u> ATGTCTAGAGAACGGCTCCTT         |
| o38 | EcoRI_lin_MTNR1B_rv   | 5'-AAAAGAATTCGGAACCTCCGCCACCTGAGAGAGCATCTGCCTGGTGCT |
| o39 | XbaI_SSTR2_fw         | 5'-AAAA <u>TCTAGA</u> ATGGACATGGCGGATGAGCC          |
| o40 | HindIII_lin_SSTR2_rv  | 5'-AAAAAAGCTTGAACCTCCGCCACCTGAGATACTGGTTTGGAGGTCTC  |
| o41 | SpeI_SSTR2_fw         | 5'-CCCC <u>ACTAGT</u> ATGGACATGGCGGATGAGCC          |
| o42 | EcoRI_lin_SSTR2_rv    | 5'-AAAAGAATTCGGAACCTCCGCCACCTGAGATACTGGTTTGGAGGTCTC |
| o43 | XbaI_SSTR5_fw         | 5'-AAAA <u>TCTAGA</u> ATGGAGCCCCTGTTCCCAGC          |
| o44 | HindIII_lin_SSTR5_rv  | 5'-TTTTAAGCTTGAACCTCCGCCACCTGACAGCTTGCTGGTCTGCATAA  |
| o45 | SpeI_SSTR5_fw         | 5'-AAAA <u>ACTAGT</u> ATGGAGCCCCTGTTCCCAGC          |
| o46 | EcoRI_lin_SSTR5_rv    | 5'-AAAAGAATTCGGAACCTCCGCCACCTGACAGCTTGCTGGTCTGCATAA |
| o47 | XbaI_ADRB2_fw         | 5'-TTTTTCTAGAATGGGGCAACCCGGGAACGG                   |
| o48 | HindIII_lin_ADRB2_rv  | 5'-TTTTAAGCTTGAACCTCCGCCACCTGACAGCAGTGAGTCATTTGTAC  |
| o49 | SpeI_ADRB2_fw         | 5'-AAAA <u>ACTAGT</u> ATGGGGCAACCCGGGAACGG          |
| o50 | EcoRI_lin_ADRB2_rv    | 5'-AAAAGAATTCGGAACCTCCGCCACCTGACAGCAGTGAGTCATTTGTAC |
| o51 | XbaI_HTR1A_fw         | 5'-AAAA <u>TCTAGA</u> ATGGATGTGCTCAGCCCTGG          |
| o52 | HindIII_lin_HTR1A_rv  | 5'-TTTTAAGCTTGAACCTCCGCCACCTGACTGGCGGCAGAACTTACACT  |
| o53 | SpeI_HTR1A_fw         | 5'-GGGG <u>ACTAGT</u> ATGGATGTGCTCAGCCCTGG          |
| o54 | EcoRI_lin_HTR1A_rv    | 5'-GGGGGAATTCGGAACCTCCGCCACCTGACTGGCGGCAGAACTTACACT |
| o55 | SpeI_EDNRB_fw         | 5'-GGGG <u>ACTAGT</u> ATGCAGCCGCCTCCAAGTCT          |
| o56 | Clal_lin_EDNRB_rv     | 5'-GGGGATCGATGGAACCTCCGCCACCTGAAGATGAGCTGTATTATTAC  |
| o57 | SpeI_NTSR1_fw         | 5'-GGGG <u>ACTAGT</u> ATGCGCCTCAACAGCTCCGC          |
| o58 | EcoRI_lin_NTSR1_rv    | 5'-AAAAGAATTCGGAACCTCCGCCACCTGAGTACAGCGTCTCGCGGGTGG |
| o59 | SpeI_NTSR2_fw         | 5'-TTTT <u>ACTAGT</u> ATGGAAACCAGCAGCCCGCG          |
| o60 | EcoRI_lin_NTSR2_rv    | 5'-AAAAGAATTCGGAACCTCCGCCACCTGAGGTCCGGGTTTCTGGGGAT  |