**S2 Table** **GenBank accession numbers and abbreviations used for phylogenetic analysis**

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| Species | Abbreviate | Gene Name | GenBank accession number |
| *Anopheles gambiae*  | Ag | chymotrypsin  | Z18887  |
| *Aedes aegypti*  | Aa CTP II | chymotrypsin II-like protein precursor | AF237415 |
| Aa  | chymotrypsin-like serine protease (JA15) | AY957559 |
| Aa L | larval chymotrypsin-like precursor | AF487334 |
| *Culex pipiens pallens*  | CpP | putative chymotrypsin-like protein | AF468495  |
| *Glossina morsitans*  | Gm | morsitans chymotrypsin-like protein (chy1) | EU589385 |
| *Phlebotomus papatasi*  | Pp chym1 | chymotrypsin (chym1) | AY128106  |
| *Lutzomyia longipalpis* | Ll Chym 1A | putative chymotrypsin (Chym1A) | EU124576 |
| Ll Chym 1B | putative chymotrypsin (Chym1B)  | EU124575  |
| Ll Chym 2 | putative chymotrypsin (Chym2) | EU124583  |
| Ll Chym 3 | putative chymotrypsin (Chym3) | EU124591  |
| Ll Chym 4 | putative chymotrypsin (Chym4)  | EU124573  |
| Ll Chym 5 | putative chymotrypsin (Chym5) | EU124574 |
| *Phlebotomus papatasi*  | Pp Chym 2 | chymotrypsin (chym2) | AY128107 |
| *Bombyx mori*  | Bm P | chymotrypsin-like proteinase | JQ081296  |
| Bm | chymotrypsin-like serine protease  | NM\_001046965  |
| *Spodoptera frugiperda*  | Sf | chymotrypsin precursor | AY251276 |
| *Spodoptera litura*  | Sl CTLP2 | chymotrypsin-like protein 2 (CTLP2) | GQ891130 |
| Sl | chymotrypsin-like protein precursor | GQ354838  |
| *Helicoverpa armigera* | Ha | clone HaFLS01825 chymotrypsin | EU325550 |
| *Amyelois transitella* | At | chymotrypsin BII-like | XP\_013183860 |
| *Ostrinia furnacalis* | On CTP16 | Midgut chymotrypsin | AFM77775.1 |
| *Diatraea saccharalis* | Ds | chymotrypsin 2b | AFW03966 |
| *Danaus plexippus* | Dp | chymotrypsin | EHJ67193 |
| *Stomoxys calcitrans* | Sc | chymotrypsin | AY190632 |
| *Papilio xuthus* | Px | chymotrypsin | KPJ01456 |
| *Papilio machaon* | Pm | chymotrypsin | KPJ18047 |
| *Helicoverpa zea* | Hz | HzC4 chymotrypsinogen  | AAF71518 |
| *Helicoverpa punctigera* | Hp | chymotrypsinogen | AAV33655 |
| *Heliothis virescens* | Hv | chymotrypsin | AFM28261 |
| *Mythimna separata* | Ms | chymotrypsin | AKR06192.1 |
| *Agrotis ipsilon* | Ai | AiC5 chymotrypsinogen | AAF71516 |
| *Ostrinia nubilalis* | On CHY1 | chymotrypsin-like serine protease 16 | AFM77775 |
| *Papilio xuthus* | Px CHY2 | Chymotrypsin-2  | KPI90986 |
| *Bombyx mori* | Bm CLP | chymotrypsin-like proteinase  | AFD99127 |
| *Manduca sexta* | Ms CLP3 | chymotrypsinogen-like protein 3 | CAM84318 |