| ***Trypanosoma cruzi* Sylvio** | | **Both species** | | ***Trypanosoma rangeli*** | |
| --- | --- | --- | --- | --- | --- |
| **ID** | **Annotation** | **ID** | **Annotation** | **ID** | **Annotation** |
| **Family: 1000** | | **Family: 1007** | | **Family: 1024** | |
| TCSYLVIO\_009290 | trans-sialidase, putative | TCSYLVIO\_003570 | surface protease GP63, putative | TRSC58\_06631 | HP: mucin-associated surface protein (MASP) domain |
| TCSYLVIO\_000676 | trans-sialidase, putative | TCSYLVIO\_003765 | surface protease GP63, putative | TRSC58\_07196 | HP: mucin-associated surface protein (MASP) domain |
| TCSYLVIO\_002129 | trans-sialidase, putative | TCSYLVIO\_003949 | surface protease GP63, putative | TRSC58\_07137 | HP: mucin-associated surface protein (MASP) domain |
| TCSYLVIO\_008550 | trans-sialidase, putative | TCSYLVIO\_007929 | surface protease GP63, putative | **Family: 1037** | |
| TCSYLVIO\_001127 | trans-sialidase, putative | TCSYLVIO\_008659 | surface protease GP63, putative | TRSC58\_01986 | *heat shock*protein HslVU, ATPase subunit HslU |
| TCSYLVIO\_008305 | trans-sialidase, putative | TRSC58\_06928 | Leishmanolysin | TRSC58\_04483 | *heat shock*protein HslVU, ATPase subunit HslU |
| TCSYLVIO\_008205 | trans-sialidase, putative | **Family: 1022** | | **Family: 1038** | |
| TCSYLVIO\_000115 | trans-sialidase, putative | TCSYLVIO\_007719 | glucose-regulated protein 78, putative | TRSC58\_02069 | HP: phosphoenolpyruvate carboxykinase domain |
| TCSYLVIO\_002490 | trans-sialidase, putative | TCSYLVIO\_007845 | glucose-regulated protein 78, putative | TRSC58\_02506 | HP: phosphoenolpyruvate carboxykinase domain |
| TCSYLVIO\_000373 | trans-sialidase, putative | TRSC58\_03733 | glucose-regulated protein 78, putative | **Family: 1039** | |
| TCSYLVIO\_000115 | trans-sialidase, putative | **Family: 1054** | | TRSC58\_03940 | HP: WD40 domain |
| TCSYLVIO\_002490 | trans-sialidase, putative | TCSYLVIO\_001780 | HP: DNA-binding transcriptional activator domain | TRSC58\_04691 | HP: WD40 domain |
| TCSYLVIO\_00373 | trans-sialidase, putative | TRSC58\_03536 | hypothetical protein | **Family: 1040** | |
| TCSYLVIO\_002150 | trans-sialidase, putative | **Family: 1055** | | TRSC58\_05352 | 4-nitrophenyl phosphatase, putative |
| **Family: 1001** | | TCSYLVIO\_001885 | serine/threonine protein phosphatase, putative | TRSC58\_06433 | 4-nitrophenyl phosphatase, putative |
| TCSYLVIO\_002201 | trans-sialidase, putative | TRSC58\_01238 | serine/threonine protein phosphate, putative | **Family: 1053** | |
| TCSYLVIO\_005139 | trans-sialidase, putative | **Family: 1056** | | TRSC58\_04787 | hypothetical protein |
| TCSYLVIO\_009000 | trans-sialidase, putative | TCSYLVIO\_002105 | methyltransferase, putative | TRSC58\_06966 | hypothetical protein |
| TCSYLVIO\_008432 | trans-sialidase, putative | TRSC58\_05399 | methyltransferase, putative |  |  |
| TCSYLVIO\_007928 | trans-sialidase, putative | **Family: 1057** | |  |  |
| **Family: 1002** | | TCSYLVIO\_002274 | DNA ligase, putative |  |  |
| TCSYLVIO\_008171 | mucin TcMUCII, putative | TRSC58\_04338 | DNA ligase, putative |  |  |
| TCSYLVIO\_008962 | mucin TcMUCII, putative | **Family: 1058** | |  |  |
| TCSYLVIO\_000263 | mucin TcMUCII, putative | TCSYLVIO\_003660 | hypothetical protein: FAD-dependent. oxidoreductase domain |  |  |
| TCSYLVIO\_008006 | mucin TcMUCII, putative | TRSC58\_01549 | hypothetical protein: NAD(P)-binding domain |  |  |
| TCSYLVIO\_006608 | mucin TcMUCII, putative | **Family: 1059** | |  |  |
| TCSYLVIO\_005131 | mucin TcMUCII, putative | TCSYLVIO\_003870 | hypothetical protein |  |  |
| TCSYLVIO\_007946 | mucin TcMUCII, putative | TRSC58\_00205 | hypothetical protein |  |  |
| TCSYLVIO\_009659 | mucin TcMUCII, putative | **Family: 1060** | |  |  |
| TCSYLVIO\_008321 | mucin TcMUCII, putative | TCSYLVIO\_004057 | cytochrome-b5 reductase, putative |  |  |
| **Family: 1003** | | TRSC58\_00139 | cytochrome-b5 reductase, putative |  |  |
| TCSYLVIO\_010252 | retrotransposon hot spot protein, putative | **Family: 1061** | |  |  |
| TCSYLVIO\_010804 | retrotransposon hot spot protein, putative | TCSYLVIO\_004076 | hypothetical protein |  |  |
| TCSYLVIO\_007954 | retrotransposon hot spot protein, putative | TRSC58\_00855 | hypothetical protein |  |  |
| TCSYLVIO\_002398 | retrotransposon hot spot protein, putative | **Family: 1062** | |  |  |
| TCSYLVIO\_009618 | retrotransposon hot spot protein, putative | TCSYLVIO\_004637 | legume-like lectin, putative |  |  |
| TCSYLVIO\_009417 | retrotransposon hot spot protein, putative | TRSC58\_00429 | legume-like lectin, putative |  |  |
| TCSYLVIO\_002078 | retrotransposon hot spot protein, putative | **Family: 1063** | |  |  |
| TCSYLVIO\_003055 | retrotransposon hot spot protein, putative | TCSYLVIO\_000503 | hypothetical protein |  |  |
| TCSYLVIO\_010841 | retrotransposon hot spot protein, putative | TRSC58\_00436 | hypothetical protein: LD-Carboxypeptidase domain |  |  |
| **Family: 1004** | | **Family: 1064** | |  |  |
| TCSYLVIO\_010388 | mucin-associated surface protein (MASP), putative | TCSYLVIO\_005460 | NADH-cytochrome b5 reductase, putative |  |  |
| TCSYLVIO\_008768 | mucin-associated surface protein (MASP), putative | TRSC58\_03053 | NADH-cytochrome b5 reductase, putative |  |  |
| TCSYLVIO\_008637 | mucin-associated surface protein (MASP), putative | **Family: 1065** | |  |  |
| TCSYLVIO\_008339 | mucin-associated surface protein (MASP), putative | TCSYLVIO\_005614 | RNA editing complex protein MP46, putative |  |  |
| TCSYLVIO\_005257 | mucin-associated surface protein (MASP), putative | TRSC58\_00967 | RNA editing complex protein MP46, putative |  |  |
| TCSYLVIO\_007698 | mucin-associated surface protein (MASP), putative | **Family: 1066** | |  |  |
| TCSYLVIO\_008109 | mucin-associated surface protein (MASP), putative | TCSYLVIO\_005689 | hypothetical protein - *heat shock*70 kDa protein domain |  |  |
| TCSYLVIO\_008972 | mucin-associated surface protein (MASP), putative | TRSC58\_05509 | hypothetical protein - *heat shock*70 kDa protein domain |  |  |
| **Family: 1005** | | **Family: 1067** | |  |  |
| TCSYLVIO\_009527 | mucin-associated surface protein (MASP), putative | TCSYLVIO\_006554 | ATP-dependent DEAD/H RNA helicase, putative |  |  |
| TCSYLVIO\_005227 | mucin-associated surface protein (MASP), putative | TRSC58\_00643 | ATP-dependent DEAD/H RNA helicase, putative |  |  |
| TCSYLVIO\_009006 | mucin-associated surface protein (MASP), putative | **Family: 1068** | |  |  |
| TCSYLVIO\_008322 | mucin-associated surface protein (MASP), putative | TCSYLVIO\_006828 | dihydrolipoamide acetyltransferase, putative |  |  |
| TCSYLVIO\_005205 | mucin-associated surface protein (MASP), putative | TRSC58\_00830 | dihydrolipoamide acetyltransferase, putative |  |  |
| TCSYLVIO\_008822 | mucin-associated surface protein (MASP), putative | **Family: 1069** | |  |  |
| TCSYLVIO\_005174 | mucin-associated surface protein (MASP), putative | TCSYLVIO\_007253 | hypothetical protein |  |  |
| **Family: 1006** | | TRSC58\_05094 | hypothetical protein |  |  |
| TCSYLVIO\_007858 | mucin-associated surface protein (MASP), putative | **Family: 1070** | |  |  |
| TCSYLVIO\_009535 | mucin-associated surface protein (MASP), putative | TCSYLVIO\_007361 | hypothetical protein |  |  |
| TCSYLVIO\_008450 | mucin-associated surface protein (MASP), putative | TRSC58\_04309 | hypothetical protein |  |  |
| **Family: 1009** | | **Family: 1071** | |  |  |
| TCSYLVIO\_008509 | mucin-associated surface protein (MASP), putative | TCSYLVIO\_007462 | acid phosphatase, putative |  |  |
| **Family: 1010** | | TRSC58\_05459 | acid phosphatase, putative |  |  |
| TCSYLVIO\_010754 | mucin-associated surface protein (MASP), putative | **Family: 1073** | |  |  |
| TCSYLVIO\_006589 | mucin-associated surface protein (MASP), putative | TCSYLVIO\_000939 | ATP-dependent RNA helicase, putative |  |  |
| TCSYLVIO\_006646 | mucin-associated surface protein (MASP), putative | TRSC58\_00169 | ATP-dependent RNA helicase, putative |  |  |
| TCSYLVIO\_006314 | mucin-associated surface protein (MASP), putative | **Family: 1074** | |  |  |
| TCSYLVIO\_006583 | mucin-associated surface protein (MASP), putative | TCSYLVIO\_00957 | cyclophilin, putative |  |  |
| **Family: 1011** | | TRSC58\_02926 | cyclophilin, putative |  |  |
| TCSYLVIO\_002216 | mucin-associated surface protein (MASP), putative |  |  |  |  |
| TCSYLVIO\_006689 | mucin-associated surface protein (MASP), putative |  |  |  |  |
| TCSYLVIO\_006684 | mucin-associated surface protein (MASP), putative |  |  |  |  |
| TCSYLVIO\_006691 | mucin-associated surface protein (MASP), putative |  |  |  |  |
| TCSYLVIO\_008118 | mucin-associated surface protein (MASP), putative |  |  |  |  |
| **Family: 1012** | |  |  |  |  |
| TCSYLVIO\_005132 | mucin-associated surface protein (MASP), putative |  |  |  |  |
| TCSYLVIO\_007735 | mucin-associated surface protein (MASP), putative |  |  |  |  |
| TCSYLVIO\_009178 | mucin-associated surface protein (MASP), putative |  |  |  |  |
| TCSYLVIO\_002032 | mucin-associated surface protein (MASP), putative |  |  |  |  |
| TCSYLVIO\_000821 | mucin-associated surface protein (MASP), putative |  |  |  |  |
| **Family: 1013** | |  |  |  |  |
| TCSYLVIO\_009562 | hypothetical protein |  |  |  |  |
| TCSYLVIO\_010865 | 90 kDa surface protein, putative |  |  |  |  |
| **Family: 1014** | |  |  |  |  |
| TCSYLVIO\_006694 | mucin-associated surface protein (MASP), putative |  |  |  |  |
| TCSYLVIO\_006720 | mucin-associated surface protein (MASP), putative |  |  |  |  |
| **Family: 1015** | |  |  |  |  |
| TCSYLVIO\_011009 | hypothetical protein |  |  |  |  |
| TCSYLVIO\_006734 | hypothetical protein |  |  |  |  |
| TCSYLVIO\_008382 | hypothetical protein |  |  |  |  |
| TCSYLVIO\_006688 | hypothetical protein |  |  |  |  |
| **Family: 1016** | |  |  |  |  |
| TCSYLVIO\_009252 | surface protease GP63, putative |  |  |  |  |
| **Family: 1018** | |  |  |  |  |
| TCSYLVIO\_010251 | mucin-associated surface protein (MASP), putative |  |  |  |  |
| **Family: 1019** | |  |  |  |  |
| TCSYLVIO\_005269 | mucin-associated surface protein (MASP), putative |  |  |  |  |
| **Family: 1020** | |  |  |  |  |
| TCSYLVIO\_006643 | mucin-associated surface protein (MASP), putative |  |  |  |  |
| TCSYLVIO\_007782 | mucin-associated surface protein (MASP), putative |  |  |  |  |
| TCSYLVIO\_007925 | mucin-associated surface protein (MASP), putative |  |  |  |  |
| **Family: 1021** | |  |  |  |  |
| TCSYLVIO\_006755 | mucin-associated surface protein (MASP), putative |  |  |  |  |
| TCSYLVIO\_008438 | mucin-associated surface protein (MASP), putative |  |  |  |  |
| TCSYLVIO\_000040 | mucin-associated surface protein (MASP), putative |  |  |  |  |
| **Family: 1023** | |  |  |  |  |
| TCSYLVIO\_008045 | mucin-associated surface protein (MASP), putative |  |  |  |  |
| TCSYLVIO\_009670 | mucin-associated surface protein (MASP), putative |  |  |  |  |
| **Family: 1025** | |  |  |  |  |
| TCSYLVIO\_008155 | mucin-associated surface protein (MASP), putative |  |  |  |  |
| **Family: 1026** | |  |  |  |  |
| TCSYLVIO\_010273 | dispersed gene family protein 1 (DGF-1), putative |  |  |  |  |
| TCSYLVIO\_010417 | dispersed gene family protein 1 (DGF-1), putative |  |  |  |  |
| **Family: 1028** | |  |  |  |  |
| TCSYLVIO\_011084 | lipase, putative |  |  |  |  |
| TCSYLVIO\_009850 | lipase, putative |  |  |  |  |
| **Family: 1029** | |  |  |  |  |
| TCSYLVIO\_002346 | protein disulfide isomerase, putative |  |  |  |  |
| TCSYLVIO\_004580 | protein disulfide isomerase, putative |  |  |  |  |
| **Family: 1030** | |  |  |  |  |
| TCSYLVIO\_003320 | aldehyde dehydrogenase, putative |  |  |  |  |
| TCSYLVIO\_000041 | aldehyde dehydrogenase, putative |  |  |  |  |
| **Family: 1031** | |  |  |  |  |
| TCSYLVIO\_003908 | hypothetical protein |  |  |  |  |
| TCSYLVIO\_008963 | hypothetical protein |  |  |  |  |
| **Family: 1032** | |  |  |  |  |
| TCSYLVIO\_008640 | mucin-associated surface protein (MASP), putative |  |  |  |  |
| **Family: 1033** | |  |  |  |  |
| TCSYLVIO\_006610 | mucin TcMUCII, putative |  |  |  |  |
| TCSYLVIO\_006724 | mucin TcMUCII, putative |  |  |  |  |
| **Family: 1034** | |  |  |  |  |
| TCSYLVIO\_007837 | mucin-associated surface protein (MASP), putative |  |  |  |  |
| TCSYLVIO\_008663 | mucin-associated surface protein (MASP), putative |  |  |  |  |
| **Family: 1035** | |  |  |  |  |
| TCSYLVIO\_008310 | mucin-associated surface protein (MASP), putative |  |  |  |  |
| TCSYLVIO\_008517 | mucin-associated surface protein (MASP), putative |  |  |  |  |
| **Family: 1042** | |  |  |  |  |
| TCSYLVIO\_010755 | mucin TcMUCII, putative |  |  |  |  |
| TCSYLVIO\_008736 | mucin-associated surface protein (MASP), putative |  |  |  |  |
| **Family: 1043** | |  |  |  |  |
| TCSYLVIO\_011075 | mucin-associated surface protein (MASP), putative |  |  |  |  |
| TCSYLVIO\_009491 | trans-sialidase, putative |  |  |  |  |
| **Family: 1044** | |  |  |  |  |
| TCSYLVIO\_002224 | mucin-associated surface protein (MASP), putative |  |  |  |  |
| TCSYLVIO\_008024 | mucin-associated surface protein (MASP), putative |  |  |  |  |
| **Family: 1045** | |  |  |  |  |
| TCSYLVIO\_002984 | UDP-Gal/UDP-GlcNAc-depend. glycosyltransferase, putative |  |  |  |  |
| **Family: 1046** | |  |  |  |  |
| TCSYLVIO\_000403 | surface protein TolT, putative |  |  |  |  |
| **Family: 1047** | |  |  |  |  |
| TCSYLVIO\_005847 | chaperone DNAJ protein, putative |  |  |  |  |
| TCSYLVIO\_005909 | heat shockprotein DNAJ, putative |  |  |  |  |
| **Family: 1048** | |  |  |  |  |
| TCSYLVIO\_000773 | dispersed gene family protein 1 (DGF-1), putative |  |  |  |  |
| TCSYLVIO\_008521 | dispersed gene family protein 1 (DGF-1), putative |  |  |  |  |
| **Family: 1049** | |  |  |  |  |
| TCSYLVIO\_008073 | mucin-associated surface protein (MASP), putative |  |  |  |  |
| **Family: 1052** | |  |  |  |  |
| TCSYLVIO\_000923 | mucin TcMUCII, putative |  |  |  |  |
| TCSYLVIO\_000936 | mucin TcMUCII, putative |  |  |  |  |
| **TOTAL** | **123** |  | **49** |  | **13** |