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| Accession | Protein Name     | Sequence                                                                                        | Length |
|-----------|------------------|-------------------------------------------------------------------------------------------------|--------|
| GPNS00296 | Unknown          | .....V.....DK.PVIR.....                                                                         | 23     |
| GPNS00056 | Membrane Vesicle | .....SPIEDFTGNLSLEFVDYRLGEPKYDLEES...K.....NRDAT                                                | 87     |
| GPNS00106 | SecA2            | .....VP.....AGHWAEGSINYLVDKGAITG.....KPDGT                                                      | 63     |
| GPNS00337 | Unknown          | .....AD.....AVK.....VT                                                                          | 29     |
| GPNS00245 | Membrane Vesicle | .....PLN.....ENGWHAGDGNGS.....T                                                                 | 9      |
| GPNS00380 | Unknown          | .....PLN.....ENGWHAGDGNGS.....                                                                  | 84     |
| GPNS00252 | Unknown          | .....                                                                                           | 0      |
| GPNS00234 | Unknown          | .....                                                                                           | 0      |
| GPNS00010 | Membrane Vesicle | .....                                                                                           | 0      |
| GPNS00208 | Unknown          | .....                                                                                           | 0      |
| GPNS00203 | Holin            | YYKAQREENPELIIDDIVKTYLSNEYSKEIDELNTYIEESLNKITQNSGNDVRNFEEFKNGESFNLYEQELVERWNLAAASDILRISALKEIGGM | 283    |
| consensus |                  |                                                                                                 |        |

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|           |                  |                                                                                                                                                                                        |     |
|-----------|------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|
|           |                  | YLDVDM L P G I Q P D L F E S I E K P S S V T V D F W E M T K L E A I M K Y K E Y I P E . . Y T S E H F D M L D E E V Q S S F E S V L A S K S D K S E F S S L G D M E A S P L E V K I A |     |
| GPNS00296 | Unknown          | .....KPTDA.....I.....                                                                                                                                                                  | 29  |
| GPNS00056 | Membrane Vesicle | .....YAAPLRVKVRL.....IIKETGEVKEQEVFMGDFPLMTD.....TGTFVINGA.ERVIVSQLVRSPSVYFNEKID                                                                                                       | 151 |
| GPNS00106 | SecA2            | .....YGPTE.....IDRASAAVIFTKI.....LNLPVD                                                                                                                                                | 88  |
| GPNS00337 | Unknown          | .....LCPKG.....RNVLEK.....                                                                                                                                                             | 41  |
| GPNS00245 | Membrane Vesicle | .....ICPAS.....ESE.....EMI.....                                                                                                                                                        | 20  |
| GPNS00380 | Unknown          | .....G.....NRAS.....IGIEIC                                                                                                                                                             | 95  |
| GPNS00252 | Unknown          | .....MT.....AQ.....                                                                                                                                                                    | 4   |
| GPNS00234 | Unknown          | .....                                                                                                                                                                                  | 0   |
| GPNS00010 | Membrane Vesicle | .....                                                                                                                                                                                  | 0   |
| GPNS00208 | Unknown          | .....MSTIIDVYAREVID                                                                                                                                                                    | 14  |
| GPNS00203 | Holin            | YLDVDM L P G I Q P D L F E S I E K P S S V T V D F W E M T K L E A I M K Y K E Y I P E . . Y T S E H F D M L D E E V Q S S F E S V L A S K S D K S E F S S L G D M E A S P L E V K I A | 376 |
| consensus |                  | .....*                                                                                                                                                                                 |     |

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|-----------|------------------|--------------------------------------------------------------------------------------------------|-----|
|           |                  | ENSGRENYDATIIPNRGAMLEYETD.....AKDVVYVR.....DTRKRLPLTV.....                                       |     |
| GPNS00296 | Unknown          | .....                                                                                            | 29  |
| GPNS00056 | Membrane Vesicle | ENAGPSFKD...AKNISSKYIA..AV.....EKAGV.....VKGDGKENFYPE.GKIDRASFA..SM.....                         | 194 |
| GPNS00106 | SecA2            | .....KWGAPTITNDGVSIAKEIE..LEDPYEKIGAELVKEVAKKTDD.....VAGDGTITATVLAQAIVREGLRNVAA.....             | 138 |
| GPNS00337 | Unknown          | .....                                                                                            | 108 |
| GPNS00245 | Membrane Vesicle | .....EKLINAGV.....                                                                               | 28  |
| GPNS00380 | Unknown          | ENADGDFAKA..TANAQLIKTLM..AE.....HN.....ISLA..NV.....                                             | 127 |
| GPNS00252 | Unknown          | .....TPIHVYSEIGKKVLL.....                                                                        | 21  |
| GPNS00234 | Unknown          | .....                                                                                            | 0   |
| GPNS00010 | Membrane Vesicle | .....                                                                                            | 0   |
| GPNS00208 | Unknown          | SRGNPTVEVEVYTESGAFGRAIYP..SG.....A....STGEHEAV.....ELRDGDKSRYLGKGVNAVNNVNEAI.....                | 75  |
| GPNS00203 | Holin            | FNSKGIINQGLISVKDSICSNLIVKQIENRYKILNNSLNPAISEDNDNFNTTNTTFIDSIMAEANADNGRFMMELGKYLIVGFFPDVKTTINLSGP | 471 |
| consensus |                  | .....*                                                                                           |     |

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|-----------|------------------|-----------------------------------------------------------------------------------------------|-----|
|           |                  | EAYAAAYQDLIMFKEGSMNIHL.I.EA...DLRNF....EISKTNISQSTEQEMASLSFDDARA.....                         |     |
| GPNS00296 | Unknown          | .....                                                                                         | 29  |
| GPNS00056 | Membrane Vesicle | .....LLRAIGF..SSDQEIV...DLLGDNEYL...RNTLEKDGTEQEALEIYERLRPG.....EPPT.VENAKSLYSRFF...          | 260 |
| GPNS00106 | SecA2            | .....LVSAYNLKDKVNGELV...T.....TFEDILDHNGEEKAN...L...                                          | 172 |
| GPNS00337 | Unknown          | .....GANPILGLRGIEKAVEKVTTETLLKSAKEVETKEQIAATAGISAGDQSIGDLIAEAMDKVGNE....GVITVEESNTFGIQLALT... | 188 |
| GPNS00245 | Membrane Vesicle | .....NVARINFSHGSHEEHK.....                                                                    | 44  |
| GPNS00380 | Unknown          | .....VPHKYWSGK...E.....CPRKILDTIDSFKAGIGGG....GSQTYVVKQGDTI.TSIA...                           | 173 |
| GPNS00252 | Unknown          | .....                                                                                         | 21  |
| GPNS00234 | Unknown          | .....                                                                                         | 0   |
| GPNS00010 | Membrane Vesicle | .....MKKQIISLGAL..AVASSLFTDNKADAIVTKDYSGKSQVNAGSKNGTLIDSRYLNSAL                               | 57  |
| GPNS00208 | Unknown          | .....APEIYGFDVTDQAGI.....DRAMIELDGTPNKG.....KIGAN....AI.....                                  | 112 |
| GPNS00203 | Holin            | EAYAAAYQDLIMFKEGSMNIHL.I.EA...DLRNF....EISKTNISQSTEQEMASLSFDDARA.....                         | 527 |
| consensus |                  | .....*                                                                                        |     |

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| <p> <span style="color:blue">PS</span><span style="color:red">RY</span><span style="color:blue">DVG</span><span style="color:blue">GR</span><span style="color:red">Y</span><span style="color:red">E</span><span style="color:red">I</span><span style="color:red">N</span><span style="color:red">K</span><span style="color:red">V</span><span style="color:red">K</span><span style="color:red">A</span><span style="color:red">Q</span><span style="color:red">E</span><span style="color:red">Y</span><span style="color:red">L</span><span style="color:red">K</span><span style="color:red">E</span><span style="color:red">Y</span><span style="color:red">L</span><span style="color:red">E</span><span style="color:red">K</span><span style="color:red">L</span><span style="color:red">E</span><span style="color:red">P</span><span style="color:red">N</span><span style="color:red">T</span><span style="color:red">S</span><span style="color:red">G</span><span style="color:red">I</span><span style="color:red">V</span><span style="color:red">E</span><span style="color:red">G</span><span style="color:red">Y</span><span style="color:red">L</span><span style="color:red">E</span><span style="color:red">R</span><span style="color:red">K</span><span style="color:red">S</span><span style="color:red">Y</span><span style="color:red">P</span><span style="color:red">R</span><span style="color:red">E</span><span style="color:red">N</span><span style="color:red">T</span><span style="color:red">Y</span><span style="color:red">E</span><span style="color:red">Y</span><span style="color:red">L</span><span style="color:red">E</span><span style="color:red">D</span><span style="color:red">Y</span><span style="color:red">I</span><span style="color:red">I</span><span style="color:red">Y</span><span style="color:red">A</span><span style="color:red">I</span><span style="color:red">G</span><span style="color:red">L</span><span style="color:red">T</span><span style="color:red">N</span><span style="color:red">K</span><span style="color:red">Y</span><span style="color:red">E</span><span style="color:red">Y</span><span style="color:red">G</span><span style="color:red">D</span><span style="color:red">N</span><span style="color:red">I</span><span style="color:red">Y</span><span style="color:red">K</span><span style="color:red">E</span><span style="color:red">A</span><span style="color:red">K</span><span style="color:red">D</span><span style="color:red">R</span><span style="color:red">L</span><span style="color:red">L</span><span style="color:red">E</span><span style="color:red">K</span><span style="color:red">V</span><span style="color:red">L</span><span style="color:red">R</span><span style="color:red">E</span><span style="color:red">D</span><span style="color:red">Q</span><span style="color:red">Y</span><span style="color:red">L</span><span style="color:red">L</span><span style="color:red">E</span><span style="color:red">R</span><span style="color:red">K</span><span style="color:red">K</span><span style="color:red">F</span><span style="color:red">N</span><span style="color:red">A</span><span style="color:red">Q</span><span style="color:red">L</span><span style="color:red">P</span><span style="color:red">T</span><span style="color:red">P</span><span style="color:red">M</span><span style="color:red">N</span><span style="color:red">I</span><span style="color:red">I</span><span style="color:red">N</span><span style="color:red">G</span><span style="color:red">G</span><span style="color:red">S</span><span style="color:red">H</span><span style="color:red">F</span><span style="color:red">E</span><span style="color:red">G</span><span style="color:red">S</span><span style="color:red">L</span><span style="color:red">G</span><span style="color:red">E</span><span style="color:red">D</span><span style="color:red">D</span><span style="color:red">N</span><span style="color:red">L</span><span style="color:red">D</span><span style="color:red">F</span><span style="color:red">S</span><span style="color:red">Q</span><span style="color:red">N</span><span style="color:red">I</span><span style="color:red">V</span><span style="color:red">D</span><span style="color:red">K</span><span style="color:red">E</span><span style="color:red">Y</span><span style="color:red">L</span><span style="color:red">L</span><span style="color:red">E</span><span style="color:red">K</span><span style="color:red">I</span><span style="color:red">S</span><span style="color:red">S</span><span style="color:red">I</span><span style="color:red">A</span><span style="color:red">R</span><span style="color:red">S</span><span style="color:red">S</span><span style="color:red">E</span><span style="color:red">R</span><span style="color:red">G</span><span style="color:red">Y</span><span style="color:red">I</span><span style="color:red">H</span><span style="color:red">Y</span><span style="color:red">I</span> </p> | <p>             29<br/>             330<br/>             244<br/>             231<br/>             103<br/>             203<br/>             21<br/>             0<br/>             104<br/>             155<br/>             581           </p> |
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| Sequence                                                                                        | Score |
|-------------------------------------------------------------------------------------------------|-------|
| .....                                                                                           | 29    |
| FELHGSV.....IDEPVEIQSIK.VYVPNDDEGRTTTTVI....GNAFPDSEVVKCITP.ADIIA.SMS..YFFNLS..G.               | 393   |
| ..LEGD.....KAV.....A.IEASTDGTSAVVTLG....GKVA PNKDLTVKVKNQSFVT.KFV..YEVKKLAVEK.                  | 300   |
| LPILLEKV.....IQSGKPL.....LIIAEDVEGEA.....L.....STLVVN.KIR..GTFKSVAVKA.                          | 276   |
| FSVTTYEN.....LINDVQV...G.SYILLDDGLIELQVK....DIDHAKKEVKCDILNSGELKNKKG..VNLPGVRVSL.               | 167   |
| .....HRPGKEIENL.....                                                                            | 203   |
| .....                                                                                           | 31    |
| .....SQYEDYKQ.....WYANY.....KKENPRTDLKMA.....NFHKYNLEELSMKEY                                    | 0     |
| .....ADNNVD.....F..QEFMILPVG.                                                                   | 144   |
| VQLQGDKISYEAACNLFAKTPYDSVLFQKNIEDSEIAYYYNPGDGEIQEIDKYKIPSIISDRPKIKLTFIGHGKDEFNTDIFAGFDVDSLSTEIE | 172   |
| .....                                                                                           | 676   |

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| logo      |                  |  |                                                                                       |     |
| GPNS00296 | Unknown          |  | KG.DV.....                                                                            | 49  |
| GPNS00056 | Membrane Vesicle |  | .....LQNQ.....FR..IGLSR.....NE..RVV.....RERMSIQDTES.....ITP..QQ...LI.                 | 448 |
| GPNS00106 | SecA2            |  | EG.GEATSTTGK....LA..VGIKQGDKVE..VQV.....TKRGGLTVSNTGI.....ITV..KN...LDT               | 398 |
| GPNS00337 | Unknown          |  | EGAGDAEAIQGR..VAQIRAEIENSDDSDYDRE..KLQERLA..KLAGGVAIKAGA.....ATE..VE...LKE            | 389 |
| GPNS00245 | Membrane Vesicle |  | PKIENQEGIDNIAEILEVSDGLMARGDMCIVE..IPPEKVP..MVQK.....D...L..                           | 262 |
| GPNS00380 | Unknown          |  | .....                                                                                 | 205 |
| GPNS00252 | Unknown          |  | PD.....YLER..LFL.....DD.....                                                          | 43  |
| GPNS00234 | Unknown          |  | KGIAA.....SDGMAIAKAYLLVDPDITFDKNEKVTDVEGEVA.....KFNSA...IEA.....SKV                   | 54  |
| GPNS00010 | Membrane Vesicle |  | .....PHKITNE.....RIKKEMIDDLNSIIDDFMETKQNRPKSITKYNPTTHNYKTNSDNKPNFDK                   | 285 |
| GPNS00208 | Unknown          |  | .....                                                                                 | 179 |
| GPNS00203 | Holin            |  | PSIS.....QDSIIVSANQYEVRR..INSEGRRELLDHSGEWINKEESI IKDI.....SSKEYISFNPKNKITVKSKNLPEIST | 799 |
| consensus |                  |  |                                                                                       |     |

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|-----------|------------------|--|------------------------------------------------------------------------------------------------|-----|
| logo      |                  |  |                                                                                                |     |
| GPNS00296 | Unknown          |  | .....                                                                                          | 49  |
| GPNS00056 | Membrane Vesicle |  | ...NTRPVIASIKE.....FFG.....SSQLS.QFM.....DQANPLAELTH..KRRLSALG...PGGITRERAQMEVRDVHYSH          | 509 |
| GPNS00106 | SecA2            |  | PASAIKNVVFALDA.DNDGVV.NYG.....SKLSGKDFALNSQNLVVGEKASLNKL VATIAGEDKVVD...PGSISI.....            | 465 |
| GPNS00337 | Unknown          |  | RKHRIEDAVRNAKAAVEEGIV.A.....GGGVA.....                                                         | 416 |
| GPNS00245 | Membrane Vesicle |  | .....                                                                                          | 262 |
| GPNS00380 | Unknown          |  | PSAAEAPELY.....                                                                                | 215 |
| GPNS00252 | Unknown          |  | .....IPFIEDAQKEHDA.....                                                                        | 56  |
| GPNS00234 | Unknown          |  | ELTKIRNNAEVQLG..ADKAA.IFD.....AHLVLDDDP...ELIQPIQDKIKENANANAATAITDVTT.....                     | 111 |
| GPNS00010 | Membrane Vesicle |  | LVEETIKAKI KEADDSWKKKTVKKYGE.T.....E.....TKSPVKEEKVEEPQAPK...VDNQQEV.....                      | 339 |
| GPNS00208 | Unknown          |  | .....                                                                                          | 179 |
| GPNS00203 | Holin            |  | LLQEIRNNSNSSDIELEEKVM.LTECEINVISNIDTQIVEERIEEAKNLTSDS.....INVIKDEFKLIES.ISDAICDLKQQNELED SHFIS | 885 |
| consensus |                  |  |                                                                                                |     |

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|-----------|------------------|--|----------------------------------------------------------------------------------------------|-----|
| logo      |                  |  |                                                                                              |     |
| GPNS00296 | Unknown          |  | .....                                                                                        | 49  |
| GPNS00056 | Membrane Vesicle |  | YGRMCPIETPEGPNIGLINSLS...VARV.NE.....FGFIETPYRKV.....DLDTHAITDQIDYLTADEEDSYVVAQANSKLDENGR    | 585 |
| GPNS00106 | SecA2            |  | .....KSSNHGII SVVNN..VITA.EA.....AGEATLTI.....KVGDTVTKDVKFVTTDSR.....                        | 510 |
| GPNS00337 | Unknown          |  | .....LLQSAPS.....                                                                            | 423 |
| GPNS00245 | Membrane Vesicle |  | .....                                                                                        | 262 |
| GPNS00380 | Unknown          |  | .....PLPDGIQLTTP...TSG.EH.....V.....FQ.....                                                  | 236 |
| GPNS00252 | Unknown          |  | ...FAQALRDEGIEVLYLETLAAESLVTPEIREAFIDEYLSEA.....                                             | 96  |
| GPNS00234 | Unknown          |  | .....QIVTI.FESMDNEYMKERAADIRDVSKRVL...SHI.....                                               | 143 |
| GPNS00010 | Membrane Vesicle |  | .....KTT.....AGKAEETTQPV AQPLVKIPQGTITGEIVKGPEYPTMENKT.....                                  | 382 |
| GPNS00208 | Unknown          |  | .....                                                                                        | 179 |
| GPNS00203 | Holin            |  | FEDISE..TDEGFSIRFINKETGESIVVET.EKTIFSEYANHITTEEISKIKGTIF....DTVNGKLVKKVNLDTTHEVN TLNA.....AF | 963 |
| consensus |                  |  |                                                                                              |     |

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|-----------|------------------|-------------------------------------------------------------------------------------------------|------|
| GPNS00296 | Unknown          | .....PTCQSGTILGH                                                                                | 60   |
| GPNS00056 | Membrane Vesicle | FMDDEVVCRFRG...NNTVMAKEKMDYMDVSPK..QVVSAATACIPFLENDSDNRALMGANMQRQAVPLMNP                        | 675  |
| GPNS00106 | SecA2            | .....KLVSVKANPDKLQVVQNKTLPTVTFVTTDQYGD.PFGANT..AAIKEVLV                                         | 578  |
| GPNS00337 | Unknown          | .....LEELSLTGDEATGANIVRVALSA..PLKQIALNGG.....                                                   | 456  |
| GPNS00245 | Membrane Vesicle | ....IRQCNKLG...KPVITATQMLDSMQRNPRATRAEASDVANAIIY.....DGTDA.....                                 | 307  |
| GPNS00380 | Unknown          | .....VQR.ALA.....ALYFYFDKGAV.....NN                                                             | 255  |
| GPNS00252 | Unknown          | ....NIRGRATKKAIARELLMAIED..NQELIEKTMAGVQKSELP..EIPASEKG...LTDLVESNYPFAIDPMPNLYFTRDPFATIGTGVSLNH | 179  |
| GPNS00234 | Unknown          | .....LGVELPNPSMIDESVV.....IVGNDLTPSDTA...QLN...KEFVQGFAATNIGGRTSHS                              | 192  |
| GPNS00010 | Membrane Vesicle | .....VQG..EIVQGPDFLTMEQSGPSLSN.NY..TNP...PLTNPILEGLEG.....SSSKL                                 | 427  |
| GPNS00208 | Unknown          | .....RMGAEV.....FHALKAVLHDKGLNTAVGDEGCGFAPN                                                     | 211  |
| GPNS00203 | Holin            | FIQSLIEYNSSKESLSNLSVAMKVQVYAQLFSTGLNTITDAAKVV.....ELVSTALDETIDLLPTISEGLPIIATIIDGVSLGA           | 1043 |
| consensus |                  | .....*.....*.....**.....**.....*                                                                |      |

| Accession | Protein Name     | Sequence                                                                                      | Length |
|-----------|------------------|-----------------------------------------------------------------------------------------------|--------|
| GPNS00296 | Unknown          | EGICIV...VEEVCEG...VSNFKKGDV...ISCVCAC...GKCY...                                              | 94     |
| GPNS00056 | Membrane Vesicle | KHRCR...VEHVESNETLVRRLVEENCVE...HEGEL...DRYPLAK                                               | 713    |
| GPNS00106 | SecA2            | KTICV...TGNDVCEG...TVHFQNGNGAT...LGSLYVNVTEGNVAFKN                                            | 619    |
| GPNS00337 | Unknown          | ...VMLSGET...AAGLY...PEEA                                                                     | 456    |
| GPNS00245 | Membrane Vesicle | ...VMLSGET...AAGLY...PEEA                                                                     | 323    |
| GPNS00380 | Unknown          | GIDCV...YGPKTADA...VARFQSVNGLT...ADGIYPATKEKIAAQL                                             | 296    |
| GPNS00252 | Unknown          | MFSETRNR.ETLYGKYIFTHHPIYGGGKVPVYDRN...ETTRIEGCDELVLISKDVLAVCISQR...TD..AASIEKLLVNIFKQNLGFKK   | 261    |
| GPNS00234 | Unknown          | AIMSR...SL..EIPAIVGTK...SITQEVKQCDMT...VDGLNGDV..IV..NPTEDELIAYQDKRECYFAD                     | 251    |
| GPNS00010 | Membrane Vesicle | EIKPQ...GTES...TLKGTQGESDIEVKPQATETTEASQYGP...R...PQ                                          | 468    |
| GPNS00208 | Unknown          | L...C...SNREALEVIE.AIEKACYKAGENVFLG..MDVASSEFYNKETGKYDLAG                                     | 260    |
| GPNS00203 | Holin            | AIKELSETSDPLLRLQEIEAKI...GIMAVNLTTATTAIITSSLGIASGFSITL...LVPLAGISAGIPSLVN..N....ELVLRDKAT.... | 1118   |
| consensus |                  | * ** ** *                                                                                     |        |

|           |                  |                                                                                               |      |
|-----------|------------------|-----------------------------------------------------------------------------------------------|------|
| GPNS00296 | Unknown          | ...YCKKGIYAHCED.....EGGWIFGHIIDGM.....QA.....EYLRV.....PHADNTLYHTP.....EDLSDE                 | 143  |
| GPNS00056 | Membrane Vesicle | FKRSNSGTCYNQRPIVAVGDVVEYNEILADGPSMELGEMALGR.....NVVVVG.FMTWDGYNVEDAVIMSERLVKDDVYTS.....IHIEEY | 794  |
| GPNS00106 | SecA2            | FELVSKVGQYQGSPD.....TKL....DINVST.....TV.....EYQLS.....KYTSDRVYSDP.....ENLEGY                 | 667  |
| GPNS00337 | Unknown          | .....                                                                                         | 456  |
| GPNS00245 | Membrane Vesicle | VKTMRN.....AVSAEAAQDYKKLLSDRTKLVETSIVNAI.....GISVA.H...TALNLNVKAIVA...ATESGSTA.....RTISKY     | 391  |
| GPNS00380 | Unknown          | S.....                                                                                        | 297  |
| GPNS00252 | Unknown          | ...V.....LAFEFANNRKFMHLDTVFTMVDYDKFTIHPEIEGDLRVY...SVTYDNEELHIV                               | 313  |
| GPNS00234 | Unknown          | KKEL...QKLRDADTVTVDGIV.....                                                                   | 271  |
| GPNS00010 | Membrane Vesicle | FNKTPKYVKYRDAG...TGIREYND.....GTFGYEARPRF.NKPSETNAYNVTTTHANGQVSYGARPTYKKPS.....ETNAY          | 537  |
| GPNS00208 | Unknown          | EGR.....TGLTSAEMVDFYEELCKDFPIISIE.....DGLD.ENDWDGHKLLT.....                                   | 303  |
| GPNS00203 | Holin            | ...KVVDYFKHVSIVETEGV...FTLLDDKIMMPQDDIVISEIDFNNSIVLGKCEIVRMEGGSHTV...TDDIDHFFSAPSITYREPHLSIY  | 1203 |
| consensus |                  | ...*...*...*...*...*                                                                          |      |

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| logo      |                  |                                                                                            |                           |                                                                |
| GPNS00296 | Unknown          | ALV.....                                                                                   | MLSDI.....                | PTGYE.....                                                     |
| GPNS00056 | Membrane Vesicle | ESE.....                                                                                   | ADTKLGPEEIT.RD.....       | IPNSESALKNLDDRGIV..YIG.....                                    |
| GPNS00106 | SecA2            | EVE.....                                                                                   | SKN.....                  | LAVADA....K.IVGNKVVV                                           |
| GPNS00337 | Unknown          |                                                                                            |                           |                                                                |
| GPNS00245 | Membrane Vesicle | RPH.....                                                                                   | SDIAITPSEETARQCSIVWG..... | VQPVVKKGRKSTDALLNN..AVA.....TAVETG...RVSNGDLIII                |
| GPNS00380 | Unknown          |                                                                                            |                           |                                                                |
| GPNS00252 | Unknown          | EEKGDLAELLAANLGV.EKVDLIR...CGGDNLVAAGREQWNDGSNTIT.....                                     |                           |                                                                |
| GPNS00234 | Unknown          |                                                                                            |                           | ELAANIGTPNDLPGVIENGAQGIGLYRTEFLYMGRDQMPTEEEQFEAYKEVLEAMDCKRVVV |
| GPNS00010 | Membrane Vesicle | NVTTHANG...QVSYGAPPTQNKPSKTNAYNVTTHGNGQVSYGARPTQNK.....                                    |                           | PSKTNAYNVT.....THANGQVS                                        |
| GPNS00208 | Unknown          |                                                                                            |                           | ERIGDK...VQLVGDDLFV                                            |
| GPNS00203 | Holin            | DVL...EVQKEELDL.SKDLMVLPNA...PNRVFAWETGWTPLGRSLENDGTKLLDRIRDN..YEG.....EFYWRY...FAFIAD.ALI |                           |                                                                |
| consensus |                  |                                                                                            |                           |                                                                |

|           |                  |                                                        |                                                                      |                              |
|-----------|------------------|--------------------------------------------------------|----------------------------------------------------------------------|------------------------------|
| logo      |                  |                                                        |                                                                      |                              |
| GPNS00296 | Unknown          | IGSGFVGIAALLTAQFYSPAKL.....IMVD...LDDNRLET.....        | ALSFCA.....                                                          | THKVNSS....D.....            |
| GPNS00056 | Membrane Vesicle | ..VTPKGVTE.LT.....                                     | AEERLLHAIFGEKA...REVRDTSLRVP.....                                    | HGAGGI.....VLDVKVFNREEG..... |
| GPNS00106 | SecA2            | TGKTPGKVDIHLTKNGATAGKATVEIVQETIAIKSVNFKPVQTENFVEK..... | KINIGT.....                                                          | VLELEKS....N.....            |
| GPNS00337 | Unknown          | ..LEPGVVA.....                                         |                                                                      |                              |
| GPNS00245 | Membrane Vesicle | TAGVPTGETG.....                                        | TTNMMKI.....                                                         | HLVCD.....                   |
| GPNS00380 | Unknown          |                                                        |                                                                      |                              |
| GPNS00252 | Unknown          | ..IAPGVVVVYN.....                                      | RNTITNAILESGLKLIKIHGSEL.....                                         | VRFRGCP.R...CMSYPFEREDI..... |
| GPNS00234 | Unknown          | RTIDIGGDKELSYLNLPEE.....                               | MNPFLGYRAIRLCLA.QQDIFRPQLRALLRASVYKLNIMFPMVATINEFREAKAILLEEKENLNKNEG |                              |
| GPNS00010 | Membrane Vesicle | YGARPTYKK.....                                         | PSKTNAYNV.....                                                       | TTHADCTATYGPRVTK.....        |
| GPNS00208 | Unknown          | TNTQKL.....                                            |                                                                      |                              |
| GPNS00203 | Holin            | TTIKPRYEDTNIRINLDSN...TRSFI.....                       | VPIITTEYIRE...KLSYSFYSGGT.Y...ALSISQYNMGINIEL.....                   |                              |
| consensus |                  |                                                        |                                                                      |                              |

|           |                  |                                                                                                |                          |            |
|-----------|------------------|------------------------------------------------------------------------------------------------|--------------------------|------------|
| logo      |                  |                                                                                                |                          |            |
| GPNS00296 | Unknown          | HDISDDIELGIMVEIPATAALADVFAKEVFFSICITNDIQYTLAADRMSE...RVSYLQPYNPNSILRLVKQVIEASHKEGKWTGMCGEMACDE |                          |            |
| GPNS00056 | Membrane Vesicle | ...PEKAIKEIYDITDGRGVDVAIEAVGIPATFDFC....QKI....IGV.....DGTVANCG.VHCKP                          |                          |            |
| GPNS00106 | SecA2            | ...DITLSPGVNQIVRVYIV....QKRKIHVCD.....                                                         |                          | KMCG.RHGNK |
| GPNS00337 | Unknown          | ...LDIVKGIN.ITKETQHKVRVVKSGAEQCKL.....Y....LDR.....                                            |                          | NGD.       |
| GPNS00245 | Membrane Vesicle | ...EIANCQ.....                                                                                 | GIGRGSVVCTTLV....AE..... |            |
| GPNS00380 | Unknown          |                                                                                                |                          |            |
| GPNS00252 | Unknown          |                                                                                                |                          |            |
| GPNS00234 | Unknown          | HDISDDIELGIMVEIPATAALADVFAKEVFFSICITNDIQYTLAADRMSE...RVSYLQPYNPNSILRLVKQVIEASHKEGKWTGMCGEMACDE |                          |            |
| GPNS00010 | Membrane Vesicle |                                                                                                |                          |            |
| GPNS00208 | Unknown          | ...AGIEKCSNSIL...IKVN.....QIGT.....L....TET.....FEAIEMAK.RAGYT                                 |                          |            |
| GPNS00203 | Holin            | ...SESVWIIDVNDVVRDV....TIESDKIKKCDLIE....GILSTLSIEENKIILNSHEINFSGEVNCSN                        |                          |            |
| consensus |                  |                                                                                                |                          |            |

|           |                  |                                                                                                  |      |
|-----------|------------------|--------------------------------------------------------------------------------------------------|------|
| logo      |                  |                                                                                                  |      |
| GPNS00296 | Unknown          | VEFDL.....DK.....LWIRNINVT                                                                       | 289  |
| GPNS00056 | Membrane Vesicle | GVISK.....                                                                                       | 937  |
| GPNS00106 | SecA2            | AVFNA.....GD.....VKLGDTV.                                                                        | 803  |
| GPNS00337 | Unknown          | .....                                                                                            | 463  |
| GPNS00245 | Membrane Vesicle | TVKDL.....EG.....KDLSDKVIV                                                                       | 511  |
| GPNS00380 | Unknown          | .....                                                                                            | 297  |
| GPNS00252 | Unknown          | .....                                                                                            | 411  |
| GPNS00234 | Unknown          | TAIPLLLGLGLDE.....FSMSATSILKARRQ.....INGLSK.....                                                 | 544  |
| GPNS00010 | Membrane Vesicle | .....                                                                                            | 636  |
| GPNS00208 | Unknown          | AVVSH.....RS.....GETEDATIA                                                                       | 379  |
| GPNS00203 | Holin            | GFVSLTFSILEGINAII EVDLLSKSYKLLISGELKILMLNSNHIQQKIDYIGFNSELQKNIPYSFVDSEKGKENGFI NGSTKEGLFVSELPDVI | 1494 |
| consensus |                  |                                                                                                  | *    |

|           |                  |                                                                                               |       |
|-----------|------------------|-----------------------------------------------------------------------------------------------|-------|
| logo      |                  |                                                                                               |       |
| GPNS00296 | Unknown          | TGLVSTNTTPLLKALE.SHKIEPEKLVHY.....FKLSEIEKAYEFSKAADHHAIK.....                                 | 342   |
| GPNS00056 | Membrane Vesicle | ..IVPEEDMPYLPDGRPIDIMLNPLGVPSRMNIGQVLELHLGMAAKNLGIHVASPVFDGANDDDVWS...TIEEAGMA.....RDGKTVLYD  | 1019  |
| GPNS00106 | SecA2            | .SQTSDSALPNFKADLY.....DTLTIKY.....T.....DKGTLVFKVLKDKDVIT.....                                | 844   |
| GPNS00337 | Unknown          | .....EKVSNLPAGHGLNA.....ATGEYEDLLAAGVADPVKV.....                                              | 496   |
| GPNS00245 | Membrane Vesicle | TNSIDETFPVYEKALGLITEENGITSPS.....AIVGLEKGIPTVVVGVEKA..VK...NIS.....NNMLVTID                   | 571   |
| GPNS00380 | Unknown          | .....                                                                                         | 297   |
| GPNS00252 | Unknown          | .....                                                                                         | 411   |
| GPNS00234 | Unknown          | .....NEMTELANRAVDCATQE                                                                        | 561   |
| GPNS00010 | Membrane Vesicle | .....                                                                                         | 636   |
| GPNS00208 | Unknown          | DIAVA.T.....NAGQ.....IKTGSMS.....RTDRIAKY.                                                    | 404   |
| GPNS00203 | Holin            | SKVYMDDSKPSFG...YYSNLKDVKVIKDNVN....ILTGYYLKD...DIKISISLTLQDEKTIKLNSVHLDSEGVAEILKFMNRKGNTNTSD | 1579  |
| consensus |                  |                                                                                               | * * * |

|           |                  |                                                                                          |      |
|-----------|------------------|------------------------------------------------------------------------------------------|------|
| logo      |                  |                                                                                          |      |
| GPNS00296 | Unknown          | .....GRTGEPFDNRISVGVMYMLKLAHMVDDKLHARSTGPYSLVTQQPLGGKAQFGGQRFGEME VWALEAYG.....AAYT..... | 1091 |
| GPNS00056 | Membrane Vesicle | .....                                                                                    | 844  |
| GPNS00106 | SecA2            | .....TRSALQNAASIAALFLTTEAVVADKPEK.....AAAPAGDPTGG...MGGMDF.....                          | 541  |
| GPNS00337 | Unknown          | .....AAQ GKIFEGYANVL.....                                                                | 585  |
| GPNS00245 | Membrane Vesicle | .....                                                                                    | 297  |
| GPNS00380 | Unknown          | .....                                                                                    | 411  |
| GPNS00252 | Unknown          | .....                                                                                    | 561  |
| GPNS00234 | Unknown          | .....                                                                                    | 636  |
| GPNS00010 | Membrane Vesicle | .....N.....Q.....                                                                        | 406  |
| GPNS00208 | Unknown          | SLMSFLES MNIKSIFVNFLQSNIKFILDAN.....FIISGTTSIGQFEFICDENDNIQPYFIKNTLETNYTLYVGNRQN         | 1654 |
| GPNS00203 | Holin            |                                                                                          |      |
| consensus |                  |                                                                                          |      |

logo

| Accession | Protein Name     | Sequence                                                                                        | Length |
|-----------|------------------|-------------------------------------------------------------------------------------------------|--------|
| GPNS00296 | Unknown          | .....VIIENDI.....SEA...                                                                         | 352    |
| GPNS00056 | Membrane Vesicle | .....LQEILTYKSDDTVGRVKTYEAIVKGENISRP.....SVPESFRVL.....MKELQSLGLDVKVMDEQDNE                     | 1151   |
| GPNS00106 | SecA2            | .....SEIGSQAVHVNVLNPNL.....                                                                     | 862    |
| GPNS00337 | Unknown          | .....                                                                                           | 541    |
| GPNS00245 | Membrane Vesicle | .....                                                                                           | 585    |
| GPNS00380 | Unknown          | .....                                                                                           | 297    |
| GPNS00252 | Unknown          | .....                                                                                           | 411    |
| GPNS00234 | Unknown          | .....EVIELVNNNYVK.....                                                                          | 572    |
| GPNS00010 | Membrane Vesicle | .....                                                                                           | 636    |
| GPNS00208 | Unknown          | .....LLRIEDELGEIAVYDGIKSFYNIKR.....                                                             | 431    |
| GPNS00203 | Holin            | MIVEPNYDLDDSGDISSTVINFSQKYLYGIDSCVNKVVISPNIYTDENITPVYETNNITYPEVIVLDANYINEKINVNINDLSIRYVWSNDGNDF | 1749   |
| consensus |                  |                                                                                                 |        |

logo

| Accession | Protein Name     | Sequence                                                                                            | Length |
|-----------|------------------|-----------------------------------------------------------------------------------------------------|--------|
| GPNS00296 | Unknown          | .....                                                                                               | 352    |
| GPNS00056 | Membrane Vesicle | IEMTDVDDDDVV.....ERKVDLQQND...APET.....                                                             | 1177   |
| GPNS00106 | SecA2            | .....                                                                                               | 862    |
| GPNS00337 | Unknown          | .....                                                                                               | 541    |
| GPNS00245 | Membrane Vesicle | .....                                                                                               | 585    |
| GPNS00380 | Unknown          | .....                                                                                               | 297    |
| GPNS00252 | Unknown          | .....                                                                                               | 411    |
| GPNS00234 | Unknown          | .....                                                                                               | 572    |
| GPNS00010 | Membrane Vesicle | .....                                                                                               | 636    |
| GPNS00208 | Unknown          | .....                                                                                               | 431    |
| GPNS00203 | Holin            | ILMSTSEENKVSQVKIRFVN VFKD KTLANKLSFNFS D KQDVPVSEIILSFTPSYYEDGLIGYDLGLVSLYNEKFYINNFGMMLSGLIYINDSLYY | 1844   |
| consensus |                  |                                                                                                     |        |

logo

| Accession | Protein Name     | Sequence                                                                                         | Length |
|-----------|------------------|--------------------------------------------------------------------------------------------------|--------|
| GPNS00296 | Unknown          | .....                                                                                            | 352    |
| GPNS00056 | Membrane Vesicle | .....                                                                                            | 1177   |
| GPNS00106 | SecA2            | .....                                                                                            | 862    |
| GPNS00337 | Unknown          | .....                                                                                            | 541    |
| GPNS00245 | Membrane Vesicle | .....                                                                                            | 585    |
| GPNS00380 | Unknown          | .....                                                                                            | 297    |
| GPNS00252 | Unknown          | .....                                                                                            | 411    |
| GPNS00234 | Unknown          | .....                                                                                            | 572    |
| GPNS00010 | Membrane Vesicle | .....                                                                                            | 636    |
| GPNS00208 | Unknown          | .....                                                                                            | 431    |
| GPNS00203 | Holin            | FKPPVNNLITGFVTVGDDKYYFNPINGGAASIGETIIDDKNYYFNQSGVLQGTGVFSTEDGFKYFAPANTLDENLEGEAIDFTGKLIIDENIYYFD | 1939   |
| consensus |                  |                                                                                                  |        |

logo

|           |                  |                                                                                                   |      |
|-----------|------------------|---------------------------------------------------------------------------------------------------|------|
| GPNS00296 | Unknown          | DNYRGAVIEWKELDGEMHYFSPETGKHYFBLNQIGDDKYYFNSDGVMQKGFVSINDNKHYFDDSGVMKVGYTEIDGKHIFYFAENGEMQIGVFNTED | 352  |
| GPNS00056 | Membrane Vesicle | .....QKEVTD.....                                                                                  | 1183 |
| GPNS00106 | SecA2            | .....                                                                                             | 862  |
| GPNS00337 | Unknown          | .....                                                                                             | 541  |
| GPNS00245 | Membrane Vesicle | .....                                                                                             | 585  |
| GPNS00380 | Unknown          | .....                                                                                             | 297  |
| GPNS00252 | Unknown          | .....                                                                                             | 411  |
| GPNS00234 | Unknown          | .....                                                                                             | 572  |
| GPNS00010 | Membrane Vesicle | .....                                                                                             | 636  |
| GPNS00208 | Unknown          | .....                                                                                             | 431  |
| GPNS00203 | Holin            | DNYRGAVIEWKELDGEMHYFSPETGKAFKGLNQIGDDKYYFNSDGVMQKGFVSINDNKHYFDDSGVMKVGYTEIDGKHIFYFAENGEMQIGVFNTED | 2034 |
| consensus |                  |                                                                                                   |      |

logo

|           |                  |                                                                                                 |      |
|-----------|------------------|-------------------------------------------------------------------------------------------------|------|
| GPNS00296 | Unknown          | GFKYFAHHNEDLGNEEGEEISYSGILNFNKIIYYFDDSFATAVGWKDLEDGSKYYFDEDTAEAYIGLSLINDGQYYFNDDGIMQVGFVTINDKVF | 352  |
| GPNS00056 | Membrane Vesicle | .....                                                                                           | 1183 |
| GPNS00106 | SecA2            | .....                                                                                           | 862  |
| GPNS00337 | Unknown          | .....                                                                                           | 541  |
| GPNS00245 | Membrane Vesicle | .....                                                                                           | 585  |
| GPNS00380 | Unknown          | .....                                                                                           | 297  |
| GPNS00252 | Unknown          | .....                                                                                           | 411  |
| GPNS00234 | Unknown          | .....                                                                                           | 572  |
| GPNS00010 | Membrane Vesicle | .....                                                                                           | 636  |
| GPNS00208 | Unknown          | .....                                                                                           | 431  |
| GPNS00203 | Holin            | GFKYFAHHNEDLGNEEGEEISYSGILNFNKIIYYFDDSFATAVGWKDLEDGSKYYFDEDTAEAYIGLSLINDGQYYFNDDGIMQVGFVTINDKVF | 2129 |
| consensus |                  |                                                                                                 |      |

logo

|           |                  |                                                                                                  |      |
|-----------|------------------|--------------------------------------------------------------------------------------------------|------|
| GPNS00296 | Unknown          | YFSDSGIIESGVQNIIDNIFYIIDDNGIVQIGVFDTSDGYKYFAPANTVNDNIYGQAVEYSGLVRVGEDVYYFGETYTIETGWIYDMENESDKYYF | 352  |
| GPNS00056 | Membrane Vesicle | .....                                                                                            | 1183 |
| GPNS00106 | SecA2            | .....                                                                                            | 862  |
| GPNS00337 | Unknown          | .....                                                                                            | 541  |
| GPNS00245 | Membrane Vesicle | .....                                                                                            | 585  |
| GPNS00380 | Unknown          | .....                                                                                            | 297  |
| GPNS00252 | Unknown          | .....                                                                                            | 411  |
| GPNS00234 | Unknown          | .....                                                                                            | 572  |
| GPNS00010 | Membrane Vesicle | .....                                                                                            | 636  |
| GPNS00208 | Unknown          | .....                                                                                            | 431  |
| GPNS00203 | Holin            | YFSDSGIIESGVQNIIDNIFYIIDDNGIVQIGVFDTSDGYKYFAPANTVNDNIYGQAVEYSGLVRVGEDVYYFGETYTIETGWIYDMENESDKYYF | 2224 |
| consensus |                  |                                                                                                  |      |

logo

|           |                  |                            |      |
|-----------|------------------|----------------------------|------|
| GPNS00296 | Unknown          | NPETKKACKGINLIDDIKYYFDEKGI | 352  |
| GPNS00056 | Membrane Vesicle | NPETKKACKGINLIDDIKYYFDEKGI | 1183 |
| GPNS00106 | SecA2            | NPETKKACKGINLIDDIKYYFDEKGI | 862  |
| GPNS00337 | Unknown          | NPETKKACKGINLIDDIKYYFDEKGI | 541  |
| GPNS00245 | Membrane Vesicle | NPETKKACKGINLIDDIKYYFDEKGI | 585  |
| GPNS00380 | Unknown          | NPETKKACKGINLIDDIKYYFDEKGI | 297  |
| GPNS00252 | Unknown          | NPETKKACKGINLIDDIKYYFDEKGI | 411  |
| GPNS00234 | Unknown          | NPETKKACKGINLIDDIKYYFDEKGI | 572  |
| GPNS00010 | Membrane Vesicle | NPETKKACKGINLIDDIKYYFDEKGI | 636  |
| GPNS00208 | Unknown          | NPETKKACKGINLIDDIKYYFDEKGI | 431  |
| GPNS00203 | Holin            | NPETKKACKGINLIDDIKYYFDEKGI | 2319 |
| consensus |                  | NPETKKACKGINLIDDIKYYFDEKGI |      |

logo

|           |                  |    |      |
|-----------|------------------|----|------|
| GPNS00296 | Unknown          | IN | 352  |
| GPNS00056 | Membrane Vesicle | IN | 1183 |
| GPNS00106 | SecA2            | IN | 862  |
| GPNS00337 | Unknown          | IN | 541  |
| GPNS00245 | Membrane Vesicle | IN | 585  |
| GPNS00380 | Unknown          | IN | 297  |
| GPNS00252 | Unknown          | IN | 411  |
| GPNS00234 | Unknown          | IN | 572  |
| GPNS00010 | Membrane Vesicle | IN | 636  |
| GPNS00208 | Unknown          | IN | 431  |
| GPNS00203 | Holin            | IN | 2366 |
| consensus |                  | IN |      |

- non-conserved
- similar
- ≥ 50% conserved