

Zf\_Dock1  
ENSP00000280333\_Hs\_Dock1  
Zf\_Dock5  
ENSP00000276440\_Hs\_Dock5  
MSRWVPTKKE-KYGVAVYNYDARSNEELSLQIGDTHILETYEGWYRGYR  
MTRWVPTKREEKYGVAFYNYDARGADELSLQIGDTHILETYEGWYRGYT  
MTRWIPTKRE-KYGVAIYNYDAKGEPELSLQVGDTHILETFEGWYRGYT  
MARWIPTKRQ-KYGVAIYNYNASQDVLESLQIGDTHILEMYEGWYRGYT  
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Zf\_Dock1  
ENSP00000280333\_Hs\_Dock1  
Zf\_Dock5  
ENSP00000276440\_Hs\_Dock5  
LRRKSKKGVFPACYIHLKEATVEGSGQKETVPI TELPLVHEVTTTLREWA  
LRKSKKKGIFPASYIHLKEAIVEGKGQHETVPIPGDLPLIQEVTTTLREWS  
LRQKSQKGFIPASYIHLKEAKVEGTGKQETVVPTELPLVQELGTTLREW  
LQNKSKKGFIPETYIHLKEATVEDLGQHETVPIGELPLVQELTSTLREWA  
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Zf\_Dock1  
ENSP00000280333\_Hs\_Dock1  
Zf\_Dock5  
ENSP00000276440\_Hs\_Dock5  
AIWRDLVVGDKREMFNTVRDMIYDLIEWRSQILSGTLPQDELTELKQRV  
TIWRQLYVQDNREMFNRVHMIYDLIEWRSQILSGTLPQDELKELKKKVT  
QIWHKLYVNNKSTLFRNVQOMAYSLIEYRSQIVSGTLPNDLVELKKKVT  
VIWRKLYVNNKLTFRQLQOMTYSLIEWRSQILSGTLPKDELAELKKKVT  
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Zf\_Dock1  
ENSP00000280333\_Hs\_Dock1  
Zf\_Dock5  
ENSP00000276440\_Hs\_Dock5  
SKMDYGNKYLDLVLVRRDKGNILDPDLTSTVNLFRAHETASKQIEARIQ  
AKIDYGNRILDLVLVRRDEGNILDPDLTSTISLFRAEHIAKQVEERLQ  
AKIDYGNRILGLDLVRRDEAGNTLDPESSTVSLFRAHESASHSIDERIQ  
AKIDHGNRMLGLDLVRRDDNGNILDPDETSTIALFKAHEVASKRIEIKIQ  
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Zf\_Dock1  
ENSP00000280333\_Hs\_Dock1  
Zf\_Dock5  
ENSP00000276440\_Hs\_Dock5  
EEKSQKQNLDLNRLAKFASTPSFALFVTLKNVCKIGEDAELMSLYDPI  
EEKSQKQNLIDINRQAKFAATPSLALFVNLKNVCKIGEDAELMSLYDPV  
EEKMRLQNLKRRQSLFSGVHTYSLLMNLRNFVCNIGEDAELMSLYDPD  
EEKSILQNLDLRGQSFSTIHTYGLYVNFKNFVCNIGEDAELMALYDPD  
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Zf\_Dock1  
ENSP00000280333\_Hs\_Dock1  
Zf\_Dock5  
ENSP00000276440\_Hs\_Dock5  
ESKFISENYLVRWSSSGLVKDIDQLHNLRAVFTDLGSEDLKREKISFVCQ  
ESKFISENYLVRWSSSGLPKDIDRLHNLRAVFTDLGSKDLKREKISFVCQ  
KSEFISENYLVRWSDSTGMPKEIEKLNLPALFTDLNSSDLLRQRLFVLCQ  
QSTFISENYLIRWGSNGMPKEIEKLNLPALFTDLSSMDLIRPRVSLVCQ  
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Zf\_Dock1  
ENSP00000280333\_Hs\_Dock1  
Zf\_Dock5  
ENSP00000276440\_Hs\_Dock5  
IVRVGRMELRDNNTKKLTSGLRRPFGVAVMDVTDIITGKMDEDKQHFIP  
IVRVGRMELRDNNTKKLTSGLRRPFGVAVMDVTDIINGKVDDEDKQHFIP  
IIRVGCMEKKEG--KKHTGGLRRPFGVAVMDITDIAHGKTDDEKQYFIP  
IVRVGHMELKEG--KKHTCGLRRPFGVAVMDITDIHKGVDDEKQHFIP  
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Zf\_Dock1  
ENSP00000280333\_Hs\_Dock1  
Zf\_Dock5  
ENSP00000276440\_Hs\_Dock5  
FQPVA-----GESDFLQSVINKVIAAKEVNHKGQ  
FQPVA-----GENDFLQTVINKVIAAKEVNHKGQ  
FQOIAMETYIRQRQLIMSPLIPSRVIGENEPLVAVFNKVIATREVNHHKGQ  
FQOIAMETYIRQRQLIMSPLITSHVIGENEPLTSLVNLKVIAAKEVNHKGQ  
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Zf\_Dock1  
ENSP00000280333\_Hs\_Dock1  
Zf\_Dock5  
ENSP00000276440\_Hs\_Dock5  
GLWVTLKLLPGDIHQIRKDFPHLVDRSTAVARKMGFPEIIMP GDVRNDIY  
GLWVTLKLLPGDIHQIRKEFPHLVDRSTAVARKMGFPEIIMP GDVRNDIY  
GLFVTLKLLPGDV FQVQKDYPHFVDRSTAIVRKMGFPEIILPGYVRNDIY  
GLWVSLKLLPGDLTQVQKNFVSHLVDRSTAIARKMGFPEIILPGDVRNDIY  
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Zf\_Dock1  
ENSP00000280333\_Hs\_Dock1  
Zf\_Dock5  
ENSP00000276440\_Hs\_Dock5  
VTLVQGFDFDKGSKTTPKNVEVTMSVHDEDGKLESVIFPGAGDEGILEYK  
VTLVQGFDFDKGSKTTAKNVEVTVSVYDEDGKRLEHVIFPGAGDEAISEYK  
VTLVQGFDFDRGKKKTPKNVEVIVSVLDEEGNPMKAIIFPGAGYEGITEYK  
VTLIHGEFDFDKGKKKTPKNVEVTMSVHDEEGKLEKAIHPGAGYEGISEYK  
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Zf\_Dock1  
ENSP00000280333\_Hs\_Dock1  
Zf\_Dock5  
SVIYYQVKQPRWYETIKVAIPIEDVNRSHLRFTRHRRSSQDCKDKSEKNF  
SVIYYQVKQPRWFETVKVAIPIEDVNRSHLRFTRHRRSSQDCKDKSEKIF  
SVIYYQVKQPCWNETVKVAIPIEDVCRCHLRLTRHRRSSQDSRDKSEKPF

ENSP00000276440\_Hs\_Dock5 SVVYYQVKQPCWYETVKVSI AIEEVTRCHIRFTFRHRSSQETRDKSERAF  
\*:\*\*\*\*\* \* \*\*:\*:\*.\*\*\*:\* \*.\*:\*:\*:\*:\*:\*:\*:\* :\*\*\*\*\*: \*

Zf\_Dock1 ALSFVKLMRYDGTTLRDGEHDLIVYKAEAKKLEDSSMYLSLASTKPEMEE  
ENSP00000280333\_Hs\_Dock1 ALAFVKLMRYDGTTLRDGEHDLIVYKAEAKKLEDAATYLSLPSTKAELEE  
Zf\_Dock5 GMAFVRLMKSDGTTLPDGKHELIIVYKVDGKKADDAKTYLSLPGTYTEVEE  
ENSP00000276440\_Hs\_Dock5 GVAFVKLMNPDGTTLQDGRHDLVYKGDNKKMEDAKFYLTLPGTKMEMEE  
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Zf\_Dock1 R-NPSSGKNAQNLG-SFTISKDSFQISTLVCSTKLTQNVDLLGLLKWRSN  
ENSP00000280333\_Hs\_Dock1 KGHSATGKSMQSLG-SCTISKDSFQISTLVCSTKLTQNVDLLGLLKWRSN  
Zf\_Dock5 K-ERQTGKSFHHGG-AVPVTKDSFQIATLTCSTKLTQNVDLLGLLNWRSN  
ENSP00000276440\_Hs\_Dock5 K-ELQASKNLVTFTPSKDSTKDSFQIATLICSTKLTQNVDLLGLLNWRSN  
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Zf\_Dock1 TSSLQONLRHLMKVEGGEVVKFLQDTLDALFNIMMENS DSETFDLVFD  
ENSP00000280333\_Hs\_Dock1 TSSLQONLRQLMKVDGGEVVKFLQDTLDALFNIMMENSESETFDLVFD  
Zf\_Dock5 TERLEEILQKLMEVEGGEIKFLQDTLDALFNIMMETSSEETFDLVFNA  
ENSP00000276440\_Hs\_Dock5 SQNIKHNLLKLMVEVDGGEIVKFLQDTLDALFNIMMENS DSETYDFLVFDA  
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Zf\_Dock1 LVFIIIGLIADRKFHFNVPLETYIRKHFSA TLAYTKLTKVLKNYVDNAEK  
ENSP00000280333\_Hs\_Dock1 LVFIIIGLIADRKFQHFNPVLETYIKKHFSA TLAYTKLTKVLKNYVDGAEK  
Zf\_Dock5 LVFIIISLIGDIKFQHFNPVLETYINKHFSA TLAYQKLTKVLNXYVGHAE  
ENSP00000276440\_Hs\_Dock5 LVFIIISLIGDIKFQHFNPVLETYIKKHFSA TLAYVKLSKVLNXYVANADD  
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Zf\_Dock1 --LSEQLLKALKAI EYIFKFI VRSRVLFNQLYENKGE SDFMESLRNLFA  
ENSP00000280333\_Hs\_Dock1 PGVNEQLYKAMKALESIFKFI VRSRILFNQLYENKGEAD-FVESLLQLFR  
Zf\_Dock5 STHTERLYAALKAFKYLFRFIVQSRVLYLRFY GKS EDGGQFQDSIRTLFL  
ENSP00000276440\_Hs\_Dock5 SSKTELLFAALKALKYLFRFIIQSRVLYLRFY GSKDGEFNNSIRQLFL  
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Zf\_Dock1 SFNAMNNSGAEGTGGVKG AALKYVPTIVNDLKL VFDPKELS KLFSEFILK  
ENSP00000280333\_Hs\_Dock1 SINDMMSMSDQTVRVKGAALKYLPTIVNDVKL VFDPKELSKMFTEFILN  
Zf\_Dock5 SISILMDRPLDEGVKIKGAILKYLPTIINDLQKVFDAVELSVQLSKFIES  
ENSP00000276440\_Hs\_Dock5 AFNMLMDRPLEEAVKIKG AALKYLP SIINDVKL VFDPVLSVLFCKFIQS  
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Zf\_Dock1 VPLGRLVKQKLH CMIDIVHSDLFTQHDCREILLPLMTDQKLHLE---NH  
ENSP00000280333\_Hs\_Dock1 VPMGLLTIQKLYCLIEIVHSDLFTQHDCREILLPMMTDQKYHLE---RQ  
Zf\_Dock5 IPDFQMVVRQKLGCLVKIVESNLFKQ PDCRDVLLPLITDQLSGQLDDNSNK  
ENSP00000276440\_Hs\_Dock5 IPDNQLVRQKLN CMTKIVESTLFRQSECREVLLPLITDQLSGQLDDNSNK  
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Zf\_Dock1 EELESCQLLSDILEVL YRKDVGP TQWHVQI IMEKL LRTINRTVISMGRD  
ENSP00000280333\_Hs\_Dock1 EDLEACCQLLSHILEVL YRKDVGP TQRHVQI IMEKL LRTVNRVVISMGRD  
Zf\_Dock5 PDLEACVQLLSTVLDMLDCKNVGP TSGHVKLI VDRLLRRVNRVVISMGRD  
ENSP00000276440\_Hs\_Dock5 PDHEASSQLLSDILEVLDRKDVGATAVHIQLIMERLLRRINRTVIGMNRQ  
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Zf\_Dock1 SSLIGSFVACMTGTLRQMDYHYTHL ISTFGKMR TDVVDFLME TFI MFKD  
ENSP00000280333\_Hs\_Dock1 SELIGNFVACMTAILRQMEDYHYAHLIKTFGKMR TDVVDFLME TFI MFKN  
Zf\_Dock5 SPYIGHYLACMTAILKQMEDAHYAQYINTF-KTRQDVIDFLME TFI MFKN  
ENSP00000276440\_Hs\_Dock5 SPHIGSFVACMIALLQMDDSHYSHYISTF-KTRQDVIDFLME TFI MFKD  
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Zf\_Dock1 LIGKNVYPGDWVIMNM MNQKVFLRAINQYAAVLSK KFLDQTNFELQLWNN  
ENSP00000280333\_Hs\_Dock1 LIGKNVYPFDWVIMNMVQNKVFLRAINQYADMLNKKFLDQANFELQLWNN  
Zf\_Dock5 LMG-NVFPDWMIMNLLQMKVFLRAIDQYSEVLNKGFLDYASFHLQLWNN  
ENSP00000276440\_Hs\_Dock5 LIGKNVYAKDWMVMMNTQNRVFLRAINQFAEVLTRFFMDQASFELQLWNN  
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ENSP00000276440\_Hs\_Dock5 PLSMLLSGIVDPVAVMGGFSNYEKAFFTEKYLQEHPEDEQEKVELLKRLIAL  
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Zf\_Dock1 QIPNLAEGVRIHGEKVTEALRPFHERLEACFRQLKEKVEKQYGIPTLPPM  
ENSP00000280333\_Hs\_Dock1 QIPFLAEGIRIHGDKVTEALRPFHERMEACFKQLKEKVEKEYGVRIMPSS  
Zf\_Dock5 QIPLLDGEGIRIHGEKSTEQKPLHNRIIVTCFQDLRAKVEKLYGVITLPCS  
ENSP00000276440\_Hs\_Dock5 QMPLLTEGIRIHGEKLTQKPLHERLSSCFRELKEKVEKHYGVITLPPN  
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Zf\_Dock1 TDERRGSRPRSMVRSFTMPSSQRPLSVASVTS-----LSSDNPSRPG  
ENSP00000280333\_Hs\_Dock1 LDDRRGSRPRSMVRSFTMPSSSRPLSVASVSS-----LSSDSTPSRPG  
Zf\_Dock5 LTEKKKSRVGSVVMPIYMSSTLRMSTISNASSGHSSGSGSSDGNSSRPA  
ENSP00000276440\_Hs\_Dock5 LTERKQSRGTGIVLPYIMSSTLRRLSITSVTSSVSTSSNSSDNAPSRPG  
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Zf\_Dock1 SDGFALEPLLP--KKQHFKSQDKLDRDE--PEKDRKEKKKEKRN~~SKHQEL~~  
ENSP00000280333\_Hs\_Dock1 SDGFALEPLLP--KKMHSRSQDKLDKDD--LEKEKDKKKKEKRN~~SKHQEI~~  
Zf\_Dock5 SQDSL~~LS~~-----RVSDNRVSVLSRSEE--DNRISKKNRKEWSVSKSQVL  
ENSP00000276440\_Hs\_Dock5 SDGSILEPLLERASSGARVEDLSLREENSENRIKFKRKDWLSKSKQVI  
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Zf\_Dock1 FDKELKTADIPLOANEAVILSETISPLRPQRPKSQVINLLG-EKRLSVSP  
ENSP00000280333\_Hs\_Dock1 FEKEFKPTDISLQOSEAVILSETISPLRPQRPKSQVMNIGSERRFSVSP  
Zf\_Dock5 LERPADTDEIPPE-----KQPRPKSLTIGDRRLTSLFHFGE  
ENSP00000276440\_Hs\_Dock5 AEKAPEDLMSPTR-----KAQRPKSLQLMDNRLSP--FHGS  
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Zf\_Dock1 GAPANQFVPSVPPPI~~T~~PRAKLQF~~S~~LLSGSNLELNG-TSYADKGET~~P~~PLLP  
ENSP00000280333\_Hs\_Dock1 SSPSSQQT~~P~~---PPVT~~P~~RAKL~~S~~FSMQS--SLELNG-MTGADVADV~~P~~PLLP  
Zf\_Dock5 SSNLSLHNPLSPLPAS~~P~~HTPRSSSYTC---LPSESNFSTPDFTNI~~P~~PPMP  
ENSP00000276440\_Hs\_Dock5 SP--PQSTPLSPP~~P~~LTPKATR~~T~~LS~~S~~PS---LQTDGIAATP----VPPPPP  
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Zf\_Dock1 VKSSMGDYGNLMDNSDLASPTTPPPPPPHQRHL~~P~~PLPSK~~T~~PPPPPK~~T~~T  
ENSP00000280333\_Hs\_Dock1 LKGSVADYGNLMENQDLLGSPTPPPPPPHQRHL~~P~~PLPSK~~T~~PPPPPK~~T~~T  
Zf\_Dock5 AKRRPHETDSIYNSTYDFMPP-----LPAKVENK-PPPPPK~~T~~R  
ENSP00000276440\_Hs\_Dock5 PKSKPYE-GSQNST-ELAPP-----LPVREAKAPPPPPK~~A~~R  
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Zf\_Dock1 RKQTSIDSGIVQ  
ENSP00000280333\_Hs\_Dock1 RKQASVDSGIVQ  
Zf\_Dock5 KSMFPTYESNQQ  
ENSP00000276440\_Hs\_Dock5 KSGIPTSEPGSQ  
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