

Skd3NBD	328	----KREAFERRRFPLEQRLKEHIIGQESAIATVGAAIRRKENGWYDEEHP-LVFLFLGS
Hsp104NBD2	557	PVKLSESENEKLIHMERDLSSEVVGQMDAIAKAVSNAVRLSRSGLANPRQP-ASFLFLGL
Hsp78NBD2	483	PTETVMKGDKDRLLYMENSLKERVVGQDEAIAAISDAVRLQAGLTSEKRPIASFMFLGP
ClpBNBD2	548	-VSRMMESEREKLLRMEQELHHRVIGQNEAVDAVSNAIRRSRAGLADPNRPIGSFLFLGP
ClpANBD2	437	PEKSVSOSDRDTLKNLGDRLKMLVFGQDKAIEALTEAIKMARAGLGHEHKPVGSFLFAGP
ClpCNBD	487	PLTKINETESEKLLSLEDTLHERVIGQKDAVNSISKAVRRRARAGLKDPKRPIGSFIFLGP
consensus	1	pv kl esekekll leq LkerviGQeAi avs Airr raGlad rrPigsFlFlGP

Walker A

Pore Loop

Skd3NBD	383	SGIGKTELAKQTAKYMHKDAKKGFIRLDMSEFQERHEVAKFIGSPPGYVGHEEGGQLTKK
Hsp104NBD2	616	SGSGKTELAKKVAGFLFNDE-DMMIRVDCSELSEKYAVSKLLGTTAGYVGDEGGFLTNQ
Hsp78NBD2	543	TGTGKTELTKALAEFLFDDE-SNVIRFDMSEFQEKHTVSRLIGAPPGYVLSSEGGQLTEA
ClpBNBD2	607	TGVGKTELCKALANFMFDS-D-EAMVRIDMSEFMKHSVSRLVGAPPGYVGHEEGGYLTEA
ClpANBD2	497	TGVGKTEVTVOLSKAL---G-IELLRFDMSEYMERHTVSRLIGAPPGYVGFDGGLLTDA
ClpCNBD	547	TGVGKTELARALAESMFDD-DAMIRVDMSEFMKHAHSVRLVGAPPGYVGHDGGQLTEK
consensus	61	tGvGKTELakala fmf de dgmiRlDmSEfmEkhtVsrlIGappGYVgyeeGGqLTea

Walker B

Sensor I

Skd3NBD	443	LKQCPNAVVLFDDEVKAHPDVLTIMLQLFDEGRITDGKGKTIDCKDAIFIMTSN/VASDEI
Hsp104NBD2	675	LQYKPYSVLLFDEVEKAHPDVLTVMQLDDGRITSGQGKTIDCSNCIVIMTSNLGAEFI
Hsp78NBD2	602	VRRKPYAVVLFDDEVKAHPDVSKLLQLVLDGKLTDSLGHVDFRNTIIVIMTSNLGQDIL
ClpBNBD2	666	VRRRPYSVILLFDEVEKAHPDVFNILLQVLDDGRLTDGQGRTVDFRNTTVIMTSNLGSDLI
ClpANBD2	553	VIKHPHAVILLDFEIEKAHPDVFNILLQVMDNGTLTDNNGRKADFRNVVLVMTINAGVRET
ClpCNBD	606	VRRKPYSVILFDIEKAHPDVFNILLQVLDDGHLTDTKGRTVDFRNTIIVIMTSN/GAQEL
consensus	121	vrkPy VvLfDeveKAHPDVfnillQvldDGrLTdgqGrtvDfrntiviMTsNvg dei

R-Finger

Skd3NBD	503	AQHALLQLRQEALEMSRNRIAENLGDVQISDKITISKNFKENVIRPILKAHFRRDEFGLRI
Hsp104NBD2	735	NSQQ-----GS-----KIQESTKN-LVMGAVRQH-FRPEFLNRI
Hsp78NBD2	662	LNDTKLGDD-----GKID-----TATKN-KVIEAMKRS-YFPEFINRI
ClpBNBD2	726	QER-F-----GE-----LDYAHMKE-LVLGVVSHN-FRPEFINRI
ClpANBD2	613	ERKS-----IG-----LIHQDNST-DAMEEIKKI-FTPEFRNRI
ClpCNBD	666	QDQRFAGFG-----GSSDG-----QDYETIRK-TMLKELKNS-FRPEFLNRI
consensus	181	n h g i k vvm lkr frpEflnRi

Sensor II

Skd3NBD	563	NEIVYFLPFCHSELIQLVNKELNFWAKRAKQ--RHNITLLWDREVADVLVDGYNVHYGAR
Hsp104NBD2	767	SSIVIFNKLRSKAIHKIVDIRLKEIEERFEQNDKHYKLNLTQEAKDFLAKYGYSDDMGAR
Hsp78NBD2	698	DDIIVFNRLSKKVLRSIVDIRIAEIQDRLAEE--KRMKIDLTDEAKDWLTDKGYDQLYGAR
ClpBNBD2	758	DEVVVFHPLGEQHIASTAOIQLKRLYKRLEE--RGYEIHISDEALKLLSENGYDPVYGAR
ClpANBD2	645	DNIIWFHDLSTDVIHQVVDKFIVELQVQLDQ--KGVSLSEVSQEARNWLAEEKGYDRAMGAR
ClpCNBD	706	DDIIVFHKLTKELKEIVTMMVNKLITNRLSE--QNINIIVTDKAKDKIAEEGYDPEYGAR
consensus	241	deivvf klsh lh ivdi l el rle khm i ltdeakdflae GyD yGAR

C-Terminal Domain

Skd3NBD	621	SIKHEVERRVNVQLAAAYEQDLLPGGCTLRITVEDSDKQLLKSPLEPSP-----QAQKR
Hsp104NBD2	827	PLNRLIQNEIILNKLALRILKNEIKDKETVNVVLKKGKSRDENVPPEAAEECLEVLPNHEAT
Hsp78NBD2	756	PLNRLIHRQILNSMATFLLKGQIRNGETVRVVVKDTKLVLPLNHEEGEVV---EEEEAK-
ClpBNBD2	816	PLKRAIQQIENPLAQQILSGELVPGKVIRLEVNEEDRIVAVQ-----
ClpANBD2	703	PMARVIQDNLKKPLANELLFGLSLVDGGQVTVALDKEKNELTYGFQSAQKHK-AEAAH---
ClpCNBD	764	PLIRAIQKTIEDNLSELILDGNQIEGKKVTVDHGKEFKYDIAEQTSETK---TPSQA---
consensus	301	pl rliqrqivn la il g lvdg tivr vvd k ll e ae e

Skd3NBD	675	LPKLRLEIIDKDSKTRRLDIRAPLHPEKVCNTI
Hsp104NBD2	887	I---GADTLGDDDDNEDSMEIDDDLD-----
Hsp78NBD2		-----
ClpBNBD2		-----
ClpANBD2		-----
ClpCNBD		-----
consensus	361	