

alphaMSH.IRM-001	.....RW.GKPV.....	6
Ecoli-ClpB.IRM-001	ATQ...LEGKTMRLLRNKVTDAAEIAEVLARWTGIPVSRMMESEREKLLRMEQELHHRVIGQNEAVD	578
contig 11902.IRM-001 1	TQKQLHEMQGD.KAMIKKEEVDAEDIADVSRWTGIPVSKMLQSEKDQLLQLEAELHHRVIGQ....	407
contig 20018.IRM-001 1	.....EIANVISMMSGIPVQRMAQAEGIKLAGMKEDLQSKVIAQDTAIE	44
contig 25392.IRM-001 1	TQKKLRDMQGD.KAMIKKEEVDAEDIADVSRWTGIPVSKMLQSEKDQLLHLEEELHQRVIGQDEAIE	102
contig 29383.IRM-001 1	.....SQALGEKDVRDEIAEVVSRATGIPVSKMMQGERQKLLHMDEALSKRVVGGDQAVR	86
contig 32308.IRM-001 6	TQKQLRDMQGD.KAMIKKEEVDAEDIADVSRWTGIPVSKMLQSEKDQLLHLEEELHQRVIGQDEAIE	576
contig 35309.IRM-001 33	IQEDLKHKQGD.SAMIKKEEVTAEDIADVSRWTGIPVSKMLQSERDKLLHLEQELHLRVVGGQDEAIA	576
contig 48006.IRM-001 1	AEAKAK.KDGSDDSLVHENVTEEEIAKIIISRWGTGIPVAKLSESE.....	49
contig 55266.IRM-001 1	.....VKKEDLSLVHESVTEDEIARIVSKWTGIPVAKLTESERSKTLHLDQVLHHRVVGQDEGVE	60
contig 68680.IRM-001 1	ANESAEDKD...NKLLRRTKVTETEEIAMIVGRWTGIPVSKLMESE.....	50
contig 73341.IRM-001 1	.....EDEIAKIIISRWGTGIPVAKLTESERNKTLHLDKILHERVVGQDEAVE	46
seq 66415.IRM-001 1	VKKKLADMKHG.ESLIRREEVTSDDIAAVVSKWTGIPVNRMMQSERMKLLHLEEELHKR.....	77
seq 135437.IRM-001 1	EERNTKE...SDNRLVHEAVTDEIAKIIISRWGTGIPVTRLTEGERTKLLSLEDELHHRVIGQDE...	86
seq 160587.IRM-001 1	.....TQDLSLVHESVTEDEIARIISRWGTGIPVSKLNESESKILH.....	41
seq 168518.IRM-001 1	.....PKLLRRTSVGAEEIAEVVSRATGIPVSKMMQGERQKLLHMDEALSKRVVGGDQAVR	79
seq 284160.IRM-001 1	.....EVSDDDIADVSRWTGIPVSKMMQSEKDQLLRLSELHTRVIGQEEAIN	49
seq 327988.IRM-001 1	ANESAEDKD...NKLLRRTKVTETEEIAMIVGRWTGIPVSKLMESEKLLDLKILHK.....	57
seq 357381.IRM-001 1	.....WTGIPVSRMLASEREKLLHMEELHRRVVGQDLAIA	36
seq 446578.IRM-001 1	NQKKQ.....NE..IPELTTEDAAEVVSLWTQIPVTHLTKGDMERLRHLEKE.....	52
seq 607059.IRM-001 1	EERNTKE...SDNRLVHEAVTDEIAKIIISRWGTGIPVTRLTEG.....	49
seq 671420.IRM-001 1	.....DEEIARIVARWTGIPVSKLMEGEREKLLHLEDILHQRVIGQDEAVT	46
seq 724706.IRM-001 1	.....ADEIADIVSKWTGIPVSKLAETEKEKILNLENTLKDRVKGQDEAVR	46
seq 1511914.IRM-001 1	.....PKLLRRTSVGAEEIAEVVSRATGIPVSKMMQGERQKL.....	50
seq 1542764.IRM-001 1	.....SVTDEEIARIVSRWTGIPVAKLNESESKTLHLADELH.....	38
seq 1849904.IRM-001 1VHENVTEEEIAKIIISRWGTGIPVAKLSESEKTLNLDLHHRVVGQDE...	49

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- X Asp, Glu
- X Arg, Lys, His
- X Phe, Tyr, Trp
- X Ala, Gly
- X Cys, Met
- X Ser, Thr
- X Asn, Gln
- X Leu, Val, Ile
- X Pro

alphaMSH.IRM-030	.....RW.GKPV.....	6
Ecoli-ClpB.IRM-030	ATQLE...GKTMRLLRNKVTDAEIAEVLARWTGIPVSRMMESEREKLLRMEQELHHRVIGQNEAVD	578
contig 027087.IRM-030 1	.....S.TQGAAMVREEVTTADDIAEVVSRWTGIPVNRMMQSEREKLLHLEELHHRVIGQDEAIT	60
contig 042720.IRM-030 1	KQAAAS.....EIKVNMDDVAKVIELWTGIPAVKIQETEFVKLAGLEAELKKKIIGQDE...	66
contig 051406.IRM-030 1	.....IADVSRWTGIPVSKMLQSEKDKLLHLEELHQRVIGQDEAIE	43
contig 052055.IRM-030 1	ATQLE...GKTMRLLRNKVTDAEIAEVLARWTGIPVSRMMESEREKLLRMEQELHHRVIGQNEAVD	333
contig 056378.IRM-030 1	EEKLANE..KKEDSLLRDRVTDEEIIARIVARWTGIPVEKLVGEREKLLHLLDDVLHHRVIGQDEAVT	271
contig 073530.IRM-030 1	IQEDLKH.KQGDSAMIKKEEVTAEIADVSRWTGIPVSKMLQSERDKLLHLEELHHRVIGQDEAIA	138
contig 078180.IRM-030 5	IQEDLKK.KQGDSALIKKEEVTAEIADVSRWTGIPVSKMLQSEREKLLHLEELHHRVIGQDEAIE	282
contig 089518.IRM-030 1	.....EVDAEDIADVSRWTGIPVSKMLQSEKDKLLHLEELHQRVIGQNEAIE	49
contig 089527.IRM-030 1	.....DEIARIISRWTGIPVARLTEGERTKLLHLEELHHRVIGQDEGVR	45
contig 106900.IRM-030 13	IQEDLKK.KQGDNAMIKKEEVTAEIADVSRWTGIPVSKMLQSERDKLLHLEELHHRVIGQDEAIE	576
contig 109347.IRM-030 1	IQEDLKH.KQGDNAMIKKEEVTAEIADVSRWTGIPVSKMLQSERDKLLNLEELHHRVIGQEEAIA	480
contig 112201.IRM-030 1	.....MIKEEVDAEDIADVSRWTGIPVSKMLQSEKDKLLHLEELHQRVIGQDEAIE	53
contig 116309.IRM-030 1	EEERIR...NEDLSLVRESVSEDEIARIVSKWTGIPVAKLTESERSKTLHLDEVLH.....	67
contig 128765.IRM-030 1	.....SLVHENVSEEEIARIISRWTGIPVAKLTESERNKTLHLDEELHHRVIGQDEGVT	54
contig 132098.IRM-030 1	EEKIAAA..KKEDSLLRDRVTDEEIIARIVARWTGIPVEKLVGEREKLLHLLDDVLHHRVIGQDEAVT	223
contig 140756.IRM-030 1	EEKSVK...ESDRSLVHEAVTDDEIARIISRWTGIPVTRLTEGERAKLLTLEDQLHHRVIGQDEGVK	189
seq 15151.IRM-030 1	SEAALEAQKQDGEGLNEQVTSAEIAEVVSAWTGVPVSKMMQGELEDKLGLEGEELHHRVIGQDEAVS	68
seq 75264.IRM-030 1	.....KQGDSALIKKEEVTAEICADVSRWTGIP.....	76
seq 143176.IRM-030 1	.....DDVAKVIELWTGIPAVKIRETEFVKLAGLEAALKQKVIIGQDEAVH	45
seq 163948.IRM-030 1	KQAAAG.....EIQVTMDDVAKVIELWTGIPAVKIRETEYAKLASLEAELKKKIIGQDDA..	91
seq 321549.IRM-030 1	....LKT.MQGASAMIKKEEVDSEDIADVSRWTGIPVSKMMQSEKDKLLHLESELHTRVIGQEEAIS	62
seq 436330.IRM-030 1	.....LRDRVTDEEIIARIVARWTGIPVEKLVGEREKLLHLLDDVLHQ.....	42
seq 501661.IRM-030 1	VKEKLT.MQGASAMIKKEEVDSEDIADVSRWTGIPVSKMMQSEKDKLLHLESELHTRVI.....	79
seq 701163.IRM-030 1	....KK.KQGDSALIKDEVTAEDIADVSRWTGIPVSKMLQSERENLLH.....	74
seq 845795.IRM-030 1	...SKKDENGNDNVMLKKEEVDEEDIKVVSTWTAIPVARLGTGARAKLVHLEELHEHVIIGQDEAVK	64
seq 878766.IRM-030 1	.....VDAEDVAEVVSRWTGIPVSRMLASEREKLLHMEELHHRVIGQDLAIA	48
seq 966940.IRM-030 1	VKKKLAD.MKHGESLIREEVTSDDIAAVVSIWTGIPVNRMMQSVRTKLLHLEELHHRVIGQDEAVIA	75
seq 1035782.IRM-030 1	IQDQLKD.TQGGDAMIKKEEVTSAEDIADVSRWTGIPVSKMLQS.....	74

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- Asp, Glu
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- Phe, Tyr, Trp
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- Ser, Thr
- Asn, Gln
- Leu, Val, Ile
- Pro

alphaMSH.IRM-143RW.GKPV.....	6
Ecoli-ClpB.IRM-143	...TQL..EGKTMRLLRNKVTDAAEIVLARWTGIPVSRMMESEREKLLRMEQELHHRVIGQNEAVD	578
contig 000421.IRM-143 1	..QEQLKSTQGGAAAMVREEVTADDIAEIVSRWTGIPVSRMMQSEREKLLHLEELHKRVIQDEAIT	190
contig 005972.IRM-143 1	.....EEEEIARIISRWTGIPVAKLTESERNKTLHLDEELHKRVIQEDGVR	46
contig 014647.IRM-143 1	..EKSV..KESDRSLVHEAVTDDEIARIISRWTGIPVTRLTEGERAKLLTLEDQLHKRVVGGDEGVK	164
contig 023387.IRM-143 1	..EEEV..KNKDLSLVHENVSEEEIARIISRWTGIPVAKLTESERNKTLHLDEELHKR.....	73
contig 030035.IRM-143 1	..EANNKNDKENVLLKKEEVEDDEISKVSVTWTGIPVSRLLSGGEREKLVHLEDILHQRVVGQDDAVK	111
contig 033429.IRM-143 1	..EAKVK..AKDLSLVHESVTDDEIAKIVSRWTGIPVAKLTESERNKTLHLADELHKRVIQDEGVE	129
contig 034881.IRM-143 1	..EAKVK..AKDLSLVHESVTDDEIAKIVSRWTGIPVAKLTESERNKTLHLADELHKRVIQDEGVE	179
contig 037029.IRM-143 1	..EKIAAAKKEDSLLRDRVTDEEIARIVARWTGIPVEKLVGEREKLLHLDDVLHQRVIGQDEAVT	68
contig 044192.IRM-143 1	..EEKAEKSKTKNTLLRDKVTEEEIARIICRWTGIPVAKLM.....	147
contig 044771.IRM-143 3	.....ARLVARWTGIPVEKLVGEREKLLHLDDVLHKRVIQDEAVT	42
contig 063398.IRM-143 1	.....VHDRVTDEEIARIISRWTGIPVAKLTESERTKILHLDDDELHKRVIQEDGVR	52
contig 064112.IRM-143 1	QLERELPAKQ..AAAGEIQVTMDDVAKVIELWTGIPAVKIRETEYAKLASLETE.....	64
contig 066288.IRM-143 1	..EKLAEPPQSSLLRDKVTEEEIARIIERWTGIPVANLMEGEREKLLHLEDILHQRVVGQDEAVR	75
contig 067406.IRM-143 1	....KIAAAKKEDSLLRDRVTDEEIARIVARWTGIPVEKLVGEREKLLHLDDVL.....	51
contig 070189.IRM-143 1	..QDEFRAASASGAMLKEEVDAEDVAEVSRTWTGIPVSRM.....	149
contig 074292.IRM-143 1	..QEDLKKKQGDNAMIKKEEVTAEADIADVSRWTGIPVSKMLQSERDKLLHLEDELHKRVIQDEAIE	68
contig 081234.IRM-143 1	..EA...KESDDALLQEKVTVDNVSEVISRWTGIPMNKLMASEREKLLALDDTLKVRVIGQDDA..	61
contig 082643.IRM-143 1	..EALL..KDRDLSLVRENVGDEEIALIISRWTGIPVAKLTESERNKTLHLDEELHKRVIQDDGVT	377
contig 088472.IRM-143 1	..EEEV..KNKDLSLVHENVSEEEIARIISRWTGIPVAKLTESERNKTLHLDEELHKRVIQDEGVT	86
contig 096522.IRM-143 1	..EAKAKKDGSDDSLHENVTEEEIAKIIISRWTGIPVAKLSESERQKTLNLDETLHKRVVGGDEAVT	89
contig 102803.IRM-143 1	..EEKV..KNEDLSLVHESVTDDEIARIISRWTGIPVAKLTESERNKTLHLDEELHKRVIQDE...	149
contig 102892.IRM-143 1	..QEDLKHKQGD SAMIKKEEVTAEADIADVSRWTGIPVSKMLQSERDKLLHLEDELHRLRVVGGDE...	128
contig 104853.IRM-143 1	..EKKS..SNRDMSLVHESVTEEEIAKIIISRWTGIPVSKLSESERQKTLNLDEQLHKRVIGQDEGVT	79
contig 118208.IRM-143 1	ELEKQTKKAQREIRRKNLSVTEDDVADVSGWTKIPVKKLAEGEAARLKKLEATLHKRVVGGQEEAVT	234
contig 119346.IRM-143 1	.....IISRWTGIPVAKLTETEREKTLHLDKQLHKRVIGQDEAVT	40
contig 128138.IRM-143 1	.....HKQGDNAMIKKEEVTAEADIADVSRWTGIPVSKMLQSERDKLLNLEQELHRLRVVGGQEEAIA	60
contig 129621.IRM-143 1	SLERKMKNRQKQKQ.NEIPELTTEDAAEVSLSWTQIPVTLTKGDMERLRHLEKELHKKHVIGQDEAVN	74
contig 131246.IRM-143 1	ALEAQK...QQDGEGLNEQVTSDEIAEIVSAWTGVPVSKMMQGEKLDKLGLEGELHKRVIQDEAVS	167

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