ALPHA MSH

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**Ecali-ClpB**.IRM-001

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**contig 11902**.IRM-001 1

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**contig 20018**.IRM-001 1

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**contig 29383**.IRM-001 1

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**contig 32308**.IRM-001 6

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**contig 35309**.IRM-001 33

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**contig 48006**.IRM-001 1

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**contig 55266**.IRM-001 1

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**contig 68680**.IRM-001 1

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**contig 73341**.IRM-001 1

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**seq 66415**.IRM-001 1

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**seq 135437**.IRM-001 1

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**seq 160587**.IRM-001 1

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**seq 168518**.IRM-001 1

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**seq 284180**.IRM-001 1

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**seq 327988**.IRM-001 1

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**seq 357381**.IRM-001 1

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**seq 446578**.IRM-001 1

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**seq 607059**.IRM-001 1

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**seq 671420**.IRM-001 1

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**seq 724706**.IRM-001 1

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**seq 1511914**.IRM-001 1

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**seq 1542764**.IRM-001 1

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**seq 1849904**.IRM-001 1

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**logo**

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**Asp, Glu**

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**Arg, Lys, His**

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**Phe, Tyr, Trp**

---

**Ala, Gly**

---

**Cys, Met**

---

**Ser, Thr**

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**Asn, Gln**

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**Leu, Val, Ile**

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**Pro**
alphaMSH.IRM-030

Ecoli-ClpB.IRM-030

contig 027087.IRM-030 1

contig 042720.IRM-030 1

contig 051406.IRM-030 1

contig 052085.IRM-030 1

contig 056378.IRM-030 1

contig 073530.IRM-030 1

contig 078180.IRM-030 5

contig 089518.IRM-030 1

contig 089527.IRM-030 1

contig 100900.IRM-030 13

contig 109347.IRM-030 1

contig 112201.IRM-030 1

contig 116309.IRM-030 1

contig 128765.IRM-030 1

contig 132098.IRM-030 1

contig 140756.IRM-030 1

seq 15151.IRM-030 1

seq 75264.IRM-030 1

seq 143176.IRM-030 1

seq 163948.IRM-030 1

seq 321549.IRM-030 1

seq 436330.IRM-030 1

seq 501661.IRM-030 1

seq 701163.IRM-030 1

seq 845795.IRM-030 1

seq 878766.IRM-030 1

seq 966940.IRM-030 1

seq 1035782.IRM-030 1

Asp, Glu
Arg, Lys, His
Phe, Tyr, Trp
Ala, Gly
Cys, Met
Ser, Thr
Asn, Gin
Leu, Val, Ile
Pro
| contig | sequence |
|--------|----------|
| 000421.IRM-143 | QEEQKSTQGGAAVREEV TADDAEVSRSWTGIFVSRMQRKKEKKLHLEELHKLVRQDEA IT |
| 005972.IRM-143 | EEELIARIISRTWITGIFVAKLTSERNTKLHDELHKLVRQDEAVG |
| 014647.IRM-143 | EKSVK.KEDTSLVHEAVTDDEAIIRISRTWITGIFVTRTLTEGERALKLLTEDQHLKRVQDEEGV |
| 023387.IRM-143 | EKSVK.AKDLSDLVHENVSEESIEAIIRISRTWITGIFVAKLINESERNTKLHDELHKLVRQDEEGV |
| 030035.IRM-143 | EANKKDRKENVLLKEEVEDEIDSKVSTWITGIFVSRILSGEREKLHVLEDILQHRVRVQDDAVK |
| 033429.IRM-143 | EAKVK.AKDLSDLVHENVSEESIEAIIRISRTWITGIFVAKLINESERNTKLHDELHKLVRQDEEGV |
| 034881.IRM-143 | EAKVK.AKDLSDLVHENVSEESIEAIIRISRTWITGIFVAKLINESERNTKLHDELHKLVRQDEEGV |
| 037029.IRM-143 | EKIAAACKEDSSLRLRDTDEAIIRIAVARITGIFVAKLVEERKHLDDVLHQRVQDEAVT |
| 044192.IRM-143 | EEEKAEXSKTNTLPKKDRTVEEIIARIICRTWITGIFVAKLM |
| 044771.IRM-143 | ARLVVARITGIFVAKLVEERKHLDDVLHQRVQDEAVT |
| 063398.IRM-143 | VHDRTVIERISRTWITGIFVAKLTEGRKVIIELDHKLVRQDEAVR |
| 064112.IRM-143 | QLERELPAKQ..AAAGEIQVMDDDAVRVIELWTGIFVAKIRETEYAKASLTE |
| 066288.IRM-143 | EKLAEEPEQSSLLRDKTVTEEAIIRIERWTITGIFVAIEMEREKLHLDELHQLHRVRVQDEAVR |
| 067406.IRM-143 | KIAAAKEDSLLDRTDIEAIIRAVRITGIFVAKLVEERKHLHDDV |
| 070189.IRM-143 | QDEFRAASASGAMLKEEVDVDEAVESRVTWITGIFVSRM |
| 074292.IRM-143 | QEDLKKKQDNDAMKEEVTAEIDAVSVRTWITGIFVSKMQLSERDKKLHDELHKLVRQDEAEI |
| 081234.IRM-143 | EAA..KESDDALLQEKEVTDNVSEVSSRTWITGMNKLMAEREKLLALDDTLKVRVRQDDA.. |
| 082643.IRM-143 | EALL..KDRDLSDLVRENVIDEAIALTISRTWITGIFVAKLTSERNTKLHDELHKLVRQDGV |
| 088472.IRM-143 | EEEV..KNNKLSDLVHENVSEEEIARISRTWITGIFVAKLTSERNTKLHDELHKLVRQDEAVG |
| 096522.IRM-143 | EAAKAKKGSDDSLSDLVHENVTEAIKiISRTWITGIFVAKLSESEQRKTLNDELHKLVRQDEAV |
| 102803.IRM-143 | EEKV..KNEDELSDLVHESVSEEEAIARISRTWITGIFVAKLTSERNTKLHDELHKLVRQDE... |
| 102892.IRM-143 | QEDLKKQDNDAMKEEVTAEIDAVSVRTWITGIFVSKMQLSERDKKLHDELHKLVRQDE... |
| 104853.IRM-143 | EKK..SNRDMSLHESVSEEEAIARISRTWITGIFVSKLESERQKTLLNDQELHRVRQDEAVT |
| 118208.IRM-143 | ELKQRTKAAQERKRLNLSVTDQODAVSVGSTWITPVKKLAEGEAARLKLKLEATLHKLRVQDEAVT |
| 119346.IRM-143 | IIISRTWITGIFVAKLTSERNTKLHDELHKLVRQDEAV |
| 128138.IRM-143 | HKQKDNDAMKEEVTAEIDAVSVRTWITGIFVSKMQLSERDKKLHDELHKLVRQDEAV |
| 129621.IRM-143 | SLEKMRKKNQKQKQ.NIEPETTEDAAEVSLSWTQIPVTVQLTGDMERLHEEELKKHLVRQDEAVN |
| 131246.IRM-143 | ALEAQK..QQDGEGELNEQVTSDEAIEVSSAVTGIFVSKMQRQGDLEKLRQELHKLVRQDEAVS |