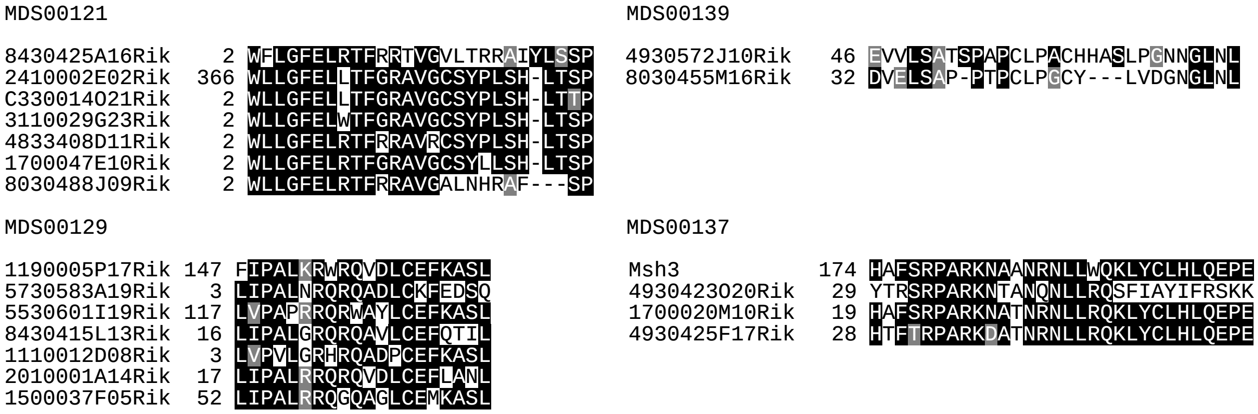
Kawaji et al. Suppl. Fig 4



```
MDS00121

8430425A16Rik    2 WFLGFELRTFRRTVGVLTRRAIYLSSP
2410002E02Rik  366 WLLGFELLTFGRAVGCSYPLSH-LTSP
C330014O21Rik    2 WLLGFELLTFGRAVGCSYPLSH-LTTP
3110029G23Rik    2 WLLGFELWTFGRAVGCSYPLSH-LTSP
4833408D11Rik    2 WLLGFELRTFRRAVRCSYPLSH-LTSP
1700047E10Rik    2 WLLGFELRTFGRAVGCSYLLSH-LTSP
8030488J09Rik    2 WLLGFELRTFRRAVGALNHRAF---SP
```

```
MDS00129

1190005P17Rik 147 FIPALKRWRQVDLCEFKASL
5730583A19Rik   3 LIPALNRQRQADLCKFEDSQ
5530601I19Rik 117 LVPAPRRQRWAYLCEFKASL
8430415L13Rik  16 LIPALGRQRQAVLCEFQTIL
1110012D08Rik   3 LVPVLGRHRQADPCEFKASL
2010001A14Rik  17 LIPALRRQRQVDLCEFLANL
1500037F05Rik  52 LIPALRRQGQAGLCEMKASL
```

```
MDS00139

4930572J10Rik   46 EVVLSATSPAPCLPACHHASLPGNNGLNL
8030455M16Rik   32 DVELSAP-PTPCLPGCY---LVDGNGLNL
```

```
MDS00137

Msh3           174 HAFSRPARKNAANRNLLWQKLYCLHLQEPE
4930423O20Rik   29 YTRSRPARKNTANQNLLRQSFIAYIFRSKK
1700020M10Rik   19 HAFSRPARKNATNRNLLRQKLYCLHLQEPE
4930425F17Rik   28 HTFTRPARKDATNRNLLRQKLYCLHLQEPE
```

False positive motifs MDS00121, MDS00129, MDS00137 and MDS00139. The alignments are based on putative translations of RIKEN clones that contained repeat elements in the predicted coding region. Msh3 is derived from DDBJ accession AK011426.