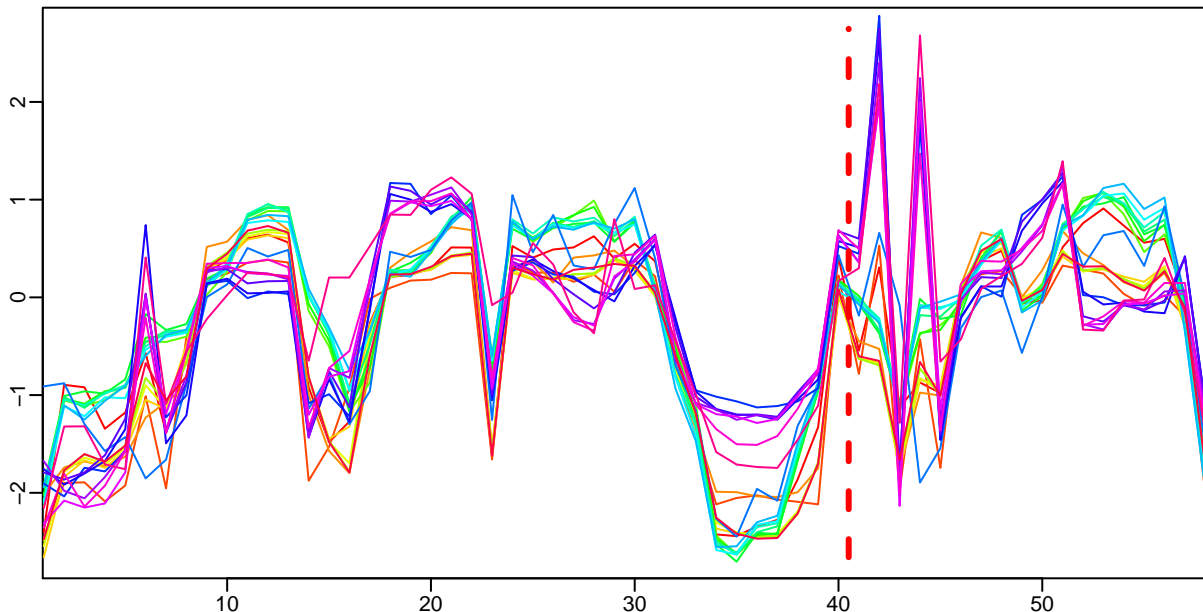**Cluster: 0113 mmp; resid: 0.27; r/c: 22/40**

11 Oct 11 16:14:07 iter=2000
cMonkey Version 4.8.8 mmp

upstream meme PSSM #1; e=4

upstream meme PSSM #2; e=91

log10(P) upstream meme   log10(P.clust)=−1.54; 22 seqs; 11 uniq

log10(P)	annotation	gene
−2.56	toxin, associated with F420−non−reducing hydrogenase:	MMP1692
−2.53	containing formylmethanofuran dehydrogenase subunit B:	MMP1691
−2.46	methylenetetrahydromethanopterin reductase:	MMP0058
−2.20	Formate transporter:	MMP1301
−2.20	hypothetical protein:	MMP1300
−2.20	carbonic anhdrase:	MMP1299
−2.02	hypothetical protein:	MMP1302
−1.80		Unanno_63
−1.77	dependent methylenetetrahydromethanopterin dehydrogenase:	MMP0372
−1.65		Antisense_22
−1.64	heterodisulfide reductase, subunit A:	MMP1697
−1.64	F420−non−reducing hydrogenase subunit delta:	MMP1696
−1.64	F420−non−reducing hydrogenase subunit:	MMP1695
−1.64	F420−non−reducing hydrogenase subunit alpha:	MMP1694
−1.64	F420 non−reducing hydrogenase subunit:	MMP1693
−0.78	coenzyme F420−reducing hydrogenase subunit beta:	MMP1385
−0.78	coenzyme F420−reducing hydrogenase subunit gamma:	MMP1384
−0.78	coenzyme F420−reducing hydrogenase delta subunit:	MMP1383
−0.78	coenzyme F420−reducing hydrogenase subunit alpha:	MMP1382
−0.46	formate dehydrogenase alpha subunit:	MMP1298
−0.46	formate dehydrogenase beta subunit:	MMP1297
−0.37	coenzyme F420−reducing hydrogenase subunit beta:	MMP0817