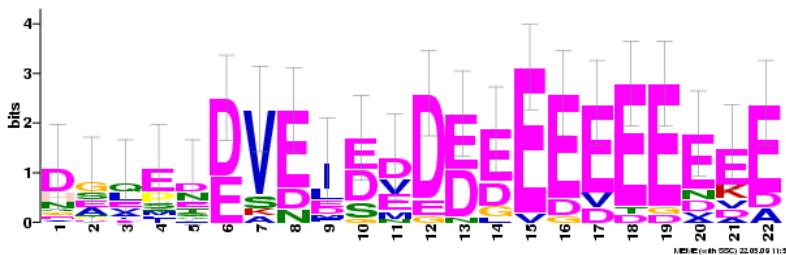


**Figure S3.** Glutamate-rich motifs from the C-termini of MSP3 proteins. The high content of glutamic acid (E) residues are present amidst other acidic amino acids in clusters, resulting in hydrophilic C-terminal regions.



PfMSP3.1-FC27 (278)	NEEEETESEISEDEEEEEEEEKE	1
PfMSP3.1-CSL2 (277)	NEEEETESEISEDEEEEEEEEKE	1
PkMSP3 <sub>140</sub> (773)	AGDMEDKELEEEEEEEEEEDD	1
PkMSP3 <sub>172</sub> (816)	DDVEDDVDDNDDDEDEEEEEE	1
PcyMSP3.10 (548)	DGQEEEDVNMEMDDGEEVDDEEE	1
PvMSP3.1 (741)	DAEPQEAEEGDEEDEDTTEEE	1
PvMSP3.2 (793)	DAAPSDVEEDEGELEDEEEEEE	1
PvMSP3.3 (916)	QTQIDEVDISVDNEEEEAGAAE	1
PvMSP3.4 (996)	DSASSDVEIEDDEEEEEEDEE	1
PvMSP3.5 (999)	HPILN DVEI DDDDEEEEEE	1
PvMSP3.6 (801)	DGLEDDVLDLVDDDVEEEE NVA	1
PvMSP3.7 (1015)	HSLPN DVEI EDDDDEGEEEKE	1
PvMSP3.8 (809)	DGLEDDVDFDVDDGEEEEE NVA	1
PvMSP3.9 (1124)	HVSNEVEI EDDEEEEEE	1
PvMSP3.10 (751)	GAQEEDVNL EMDDEEEVEE VEE	1
PvMSP3.11 (312)	EEQTLEV EDDV DEEEDEEDDD	1