

FLCE	MDIQLQARALLLLLLSAVCNA-----YPTDNYKADDENSEKEDEDITTTIILRMNNGSADM	53
MLCE	MDLIIAKASVLLLLLSSLNSNAQTDNMEEAENGSSKEEIDESELEDVSSIIIFRMNNNSMEE	60
	▼	
FLCE	FEGDVVPVPSRTAKKC LDPRYSCFWPKSSNGNVEIPFVLSDEYDHNEKNQTLKAMKGEG	113
MLCE	LEGDLVLPKTRNAMKC FGAPDSCRWPKSSNGIVKVPYVVSNDYESDEKEТИRNAMKEFAE	120
FLCE	RTCIRFVRHRGERAYLSIESKFGCFSLMGRSGEROLVSLQRPGCLNNGIIQHELLHAMGF	173
MLCE	KTCIHFVPRNNERAYLSTLEPRFGCKSMMGYVGDKOVVVLQRFGCIKHAVIQHELLHALGF	180
FLCE	YHEHTRS DRDKYVKINWDNIQEYYYYKNFKKMDTDNLTPYDYSSVMQYGTAFGKNRAES	232
MLCE	YHEHTRS DRDQHVKINWENIIKDFTHNFDKNDTDNLIGTPYDYGSIMHYGR TAFGKDRKET	240
FLCE	ITPIPDPNVPIGOREGMSDTIDILRVNKLYKCWSYIG	268
MLCE	ITPIPNPKAAIGOTERMSDIDILRVNKLYKO-----	271

Fig. S1. Alignment of amino acid sequence of FLCE and MLCE. Identical residues are boxed. Triangle indicates the N terminus of mature enzyme. Consensus sequences of metal binding site HExxHxxGfxHExxRxDR and methionine turn SxMHY are shaded in gray. Accession number: FLCE, AB210814; MHCE, NM_001104822.

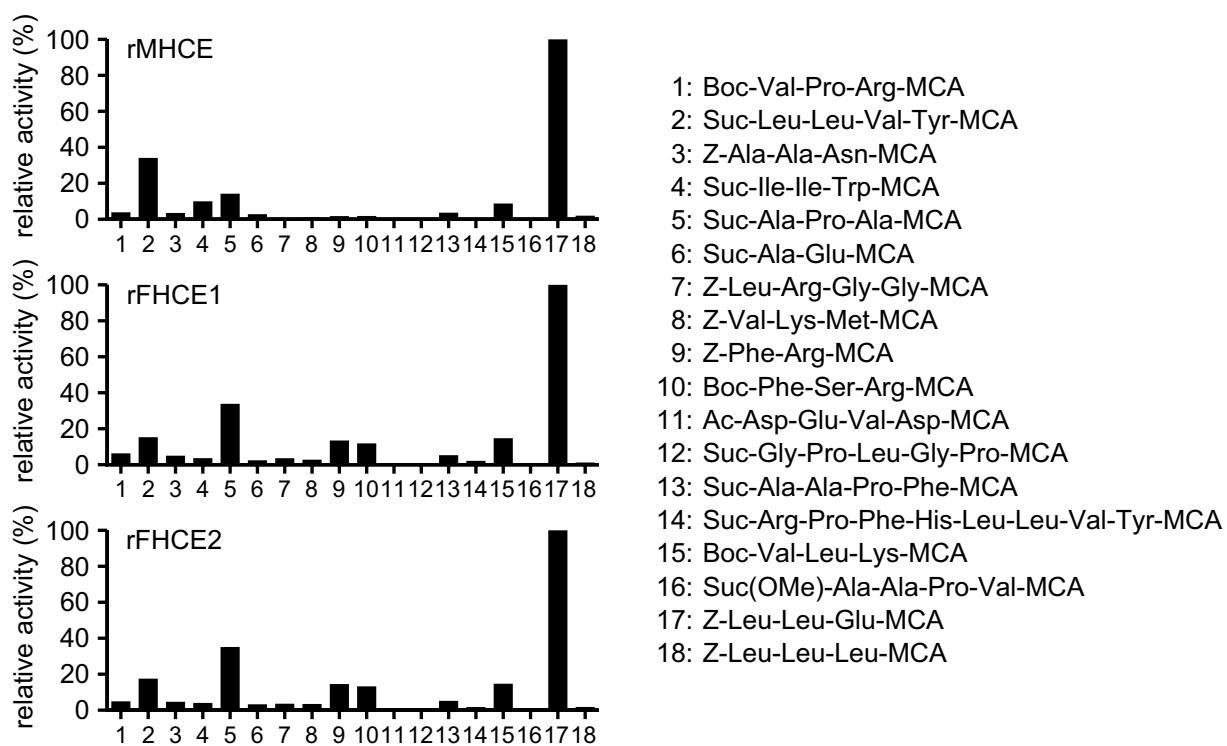


Fig. S2. Substrate specificity of HCE towards MCA peptides. Substrate specificity of rMHCE, rFHCE1 and rFHCE2 was examined with 18 kinds of MCA peptides. Sequences of the MCA peptides are shown on the right. Activity to each substrate is expressed as percent of the best substrate, Z-Leu-Leu-Glu-MCA.