

A

cNLS Mapper Result

Predicted NLSs in query sequence	
MSDQLYAIADFCLIPMGLPVPSVGPQIAECQVLEKSGLEYKLGHYGTNV	50
EGPHDQVMKAIIGD CHKAVHANGTPRIATDIRIGTRTDK SIASGGNDGKVK	100
RVEEILAKESSKA	114

Predicted monopartite NLS		
Pos.	Sequence	Score

Predicted bipartite NLS		
Pos.	Sequence	Score
63	DCHKAVHANGTPRIATDIRIGTRTDK SI A	2.4

B

cNLS Mapper Result

Predicted NLSs in query sequence	
MRPKVLEIAIHETQAVVYSCDFQPLPLPQLKRLAASTTSEEDKDRIEK	50
GSSSAATAAGGRQYRLATAGGDSKVRIMVMVYVNPISIPPSTVAALTGHEY	100
TPHPPRVEYLATLSKHTAPVNVVRFSPSGQILASAGDDGNVILWVSDRP	150
TAVFGETSDDLPKHEMRLQKMLQVTTKHVYDLSHSPDGEVLIAGSDTNT	200
ATIKAATGECVAFALREHMHVQVSNDFLNEYIATQSSDRVHVNTFTT	250
RNGIPDVHPVSRSTRMEIRHSRTPSISSASRPSMVRGGSTTSEAGSVITT	300
ASDFPEAALPPHAPALAGVSASATPATPSASVSTPQAAPAPINPPATSN	350
RPCSRSSFSGSQTAASPALSAAAFSHLARSARSPSIPPLPAIRAPPAL	400
TINQRLYGEEGATRFRRLLTFSPDGLLLTPAQIEDQVFKGSPLLTAKN	450
VSQTSDFSSSSVPRPKNVEGKPTAVIYSRANLSRSPIAHLPGHKTSV	500
AIRFSPVFDLRHNGQLSAEPKHVNFKNDIQPVHVSLSLHMPPPPSGSRE	550
KEKEKEGDKVLGSVFALPYRLLYAVACQDSVLLYDTQQAGPIAIFKGLHY	600
AGFTDVAHSPDQCLFLSSADGYCSIVIFDLGELGTVHPTQQMHRQLQAI	650
AQSHNNGISTPLPPSLIHRDSIHS SHS QSGASATGHSPAVSHVARQSPAP	700
GVARSDREGSTASSVVGASGVSASLLSVPNAGGAKAPPSSASSVTVTD	750
QVLPTPTPSDTEGPSAAGVDLGIAMSQ EGDAKKREGAGETTQAEAPKKRR	800
RVAL THLGSEQ	811

Predicted monopartite NLS		
Pos.	Sequence	Score
795	APKKKRRVA	9.5
794	EAPKKKRRVAL	6
796	PKKKRRVALT	8

Predicted bipartite NLS		
Pos.	Sequence	Score
778	EGDAKKREGAGETTQAEAPKKKRRV	11.6

Fig S5. Prediction of putative nuclear localization signals. Ecm15 (A) and Cac2 (B) putative nuclear localization signals were determined by cNLS Mapper.