

Predicted NLSs in query sequence		
	NLS1	
MASSAPPPP	PQVKHQVFLSFRGEDTRNNFTSHLLKALKDT	50
KLEKGEKLSDALSQAI	AASNLSILVLSKDYASSKSCLGELSDIMDRKRKP	100
TDKHI	ALPIFYHVDPSHVRNIGETFKTSFEEHESKRPVDEVKRWKVAFTE	150
VGTLKGWHIEGGKFDR	SETEYIKDVVEYVLKKLNSNCRSVSEDLVGIDDQ	200
KRIILGLIEQADSRVIGLWGMGGIGKTTLADIVYKEVSP	EFESRFFLRNV	250
SKKIKDQGD	ESLRNDLLSKLLKEKEICVDTPSIGYPYNERLNNKSVLLVL	300
DDISDPDQIDFMGVTHFGPGSKIIVTSRDRQILNNGGADKIHEVKKLNAN		350
DSLQLFSTFAFKQLNPAVDFRDLSRKFVKYAQGSPLALKVCGSTLYKKS	R	400
KEWESEVDKLR	CAQPKILQILESSFNGLDEIEKNIFLDIAIFFKGERRE	450
NVEEILNCCYKGV	DGVIRSLLDKSLLDTKSYSEISMHDMLEEMGRDIVRQ	500
ESRRPQE	QSRWLWPKDQVQLKYNKGTDLTKGKVCMSPTDVRRI	550
QNMHNLRFIYFSLTKWVGGYAYDQVDDIAYLPNELRCLCWD	CYPFKSLSS	600
NYNPENLVILRLRGSNVEQLWDEDKHQDLVNLRHIDISYCKLRKIPNLL		650
RAINLKTVICSWCDNLVEIPCLDHLESLELEFEGCCNLKMF	PKVPNIFS	700
VLDLSNTGIEEVPDSIGYLDMLECLDLSHSHKVS	SVSSNLIKLNDDDL	750
YSMI	TKFPETPKNLTSNLSGTKINEVSLSSNPLSNLRELDMGFSSIQK	800
LQCNI	ALFCSGETTGGAPSPILRFKSLGCLTVHECNLSLKLSELPPYLWQ	850
LDANYCLSLEEVS	FSAHQDLYELHSSFDNFDCFMLFSNCFSLNQDSIDN	900
IAANAM	LKIRFLAKKWSKYHLRPRVFYSYFPGNEIPSNKFEHQSNHSSL	950
TLKI	APNGCSGRFLVFSICLVADLTELLDCSEFICECQLTAASGARHE	1000
KFKSVWQ	GKQYHSASMGMGDHVLILFGG DMVKKDEGYEQASFEFYLKYL	1050
GEENMKVKKC	GVDVSYVDEEPPKQSTT	NLS2 1077

Predicted bipartite NLS		
Pos.	Sequence	Score
11	PQVKHQVFLSFRGEDTRNNFTSHLLKALKDT	6.9
1030	DMVKKDEGYEQASFEFYLKYLGEENMKVKKC	5.7

Figure S3 | Prediction of nuclear localization signals in *GhDSCI*. Nuclear localization signals prediction of *GhDSCI* was conducted using the web-based program cNLS mapper (http://nls-mapper.iab.keio.ac.jp/cgi-bin/NLS_Mapper_form.cgi). Peptide sequences in red color represent two nuclear localization signals (NLS1 and NLS2) in *GhDSCI*.