Division of Signal Transduction Therapy

Standard Operation Procedure

Preparation of His-Halo-Mud1 UBA domain

Enzyme description:- Mud1 291-332 = UBA domain

Clone number:- DU22720

Source:- bacteria

Tag:- N-terminal His-Halo-

Purification method:- Ni^{++}-Sepharose

Expression level:- 20 mg/L

Calculated molecular mass:-

Monoisotopic	39948
Average Mass	39972

[cysteines reduced, methionines have not been oxidised]

Theoretical pI:- 4.91

Purity:- 90%

Enzyme storage buffer:-

50 mM HEPES pH 7.5, 10% glycerol, 150mM NaCl, 1mM DTT

Storage temperature:- -80ºC

Assay:-

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Clone Data Sheet

Protein name His-Halo-Mud1 UBA domain

Protein	His-Halo-Mud1 UBA 291-332 = UBA domain
Synonyms	
Clone Number	DU22720
Species	Schizosaccharomyces pombe
Accession Number	Protein: Q10256, NP_001018195.1 DNA:NM_001018619.1
Tags	N-terminal His-Halo-
Aminoacid sequence of the expressed protein	MGSSHHHHHHENLYFQMAEIGTGFPFDPHYVEVLGERMHYVDVGPRDGTPV LFLHGNPTSSYVWRNIIPHVAPTHRCIAPDLIGMGKSDKPDLGYFFDDHVR FMDAFIEALGLEEVVLVIHDWGSALGFHWAKRNPERVKGIAFMEFIRPIPT WDEWPEFARETFQAFRTTDVGRKLIIDQNVFIEGTLPMGVVRPLTEVEMDH YREPFLNPVDREPLWRFPNELPIAGEPANIVALVEEYMDWLHQSPVPKLLF WGTPGVLIPPAEAARLAKSLPNCKAVDIGPGLNLLQEDNPDLIGSEIARWL STLEISGG**SPTDPGLNSKIAQLVSMGFDPLEAAQALDAANGDLDVAASFLL**
Native sequence	in bold
Protease cleavage	TEV site does not work

DNA sequence of the expression cassette	ATGGGCAGCAGCCATCATCATCATCACGAAAACCTGTATTTTCAGatg gcagaaatcggtactggctttccattcgacccccattatgtggaagtcctg ggcgagcgcatgcactacgtcgatgttggtccgcgcgatggcacccctgtg ctgttcctgcacggtaacccgacctcctcctacgtgtggcgcaacatcatc ccgcatgttgcaccgacccatcgctgcattgctccagacctgatcggtatg ggcaaatccgacaaaccagacctgggttatttcttcgacgaccacgtccgc ttcatggatgccttcatcgaagccctgggtctggaagaggtcgtcctggtc attcacgactggggctccgctctgggtttccactgggccaagcgcaatcca gagcgcgtcaaaggtattgcatttatggagttcatccgccctatcccgacc tgggacgaatggccagaatttgcccgcgagaccttccaggccttccgcacc accgacgtcggccgcaagctgatcatcgatcagaacgttttatcgagggt acgctgccgatgggtgtcgtccgcccgctgactgaagtcgagatggaccat taccgcgagccgttcctgaatcctgttgaccgcgagccactgtggcgcttc ccaaacgagctgccaatcgccggtgagccagcgaacatcgtcgcgctggtc gaagaatacatggactggctgcaccagtcccctgtcccgaagctgctgttc tggggcaccccaggcgttctgatcccaccggccgaagccgctcgcctggcc aaaagcctgcctaactgcaaggctgtggacatcggcccgggtctgaatctg ctgcaagaagacaacccggacctgatcggcagcgagatcgcgcgctggctg tcgacgctcgagatttccggcggatcccccactgaccccggtttgaactcc aaaattgcacagctagtcagtatgggatttgatccattagaggctgcgcag gcgttagacgctgcgaatggagatttagatgtagctgcttcttttctcctt taagcggccgc