

Division of Signal Transduction Therapy

Standard Operation Procedure

Preparation of DCUN1D2

Enzyme description:- His-DCUN1D2

Clone number:- DU20632

Source:- Recombinant

Tag:- N-terminal His₆

Purification method:- Ni⁺⁺-Sephrose

Expression level:- 5mg/L

Calculated molecular mass:-

Monoisotopic 33344 Da

Average Mass 33364 Da

[cysteines reduced, methionines have not been oxidised]

Theoretical pI:- 6.02

Purity:- 90%

Enzyme storage buffer:-

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

Storage temperature:- -80°C

Assay:-

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Clone Data Sheet

Protein name DCUN1D2

<u>Protein</u>	His-DCUN1D2 1- 259 (full length)
<u>Synonyms</u>	DCUNDL2
<u>Clone Number</u>	DU20632
<u>Species</u>	Human
<u>Accession Number</u>	Protein
<u>Tags</u>	N-terminal His ₆
Aminoacid sequence of the expressed protein	MGSSHHHHHSSG <u>LEVL</u> FQGPSPPEFPGVDM MHKLKSSQKDKVRQFMACTQ AGERTAIYCLTQNEWRLDEATDSFFQNPDSLHRESMRNAVDKKLERLYG RYKDPQDENKIGVDGIQQFCDDLSDPASISVLVIAWKFRAATQCEFSRK EFLDGMTELGCDSMEKLLKALLPRLEQELKDTAKFKDFYQFTTFKPNPGQ KGLDLEMAVAYWKLVLSSGRFKFLDLWNTFLMEHHKRSIPRDTWNLLLDG NMIADDMSNYDEEGAWPVLIDDFVEYARPVVTGGKRSLF
Native sequence	in bold
Protease cleavage	Prescission site underlined
Cloning sites	SalI NotI

DNA sequence of insert

GTCGACATGCATAAGCTTAAATCGTCTCAGAAGGACAAGGTCCGCCAGTT
TATGGCGTGCACTCAGGCTGGCGAGAGAACTGCTATCTACTGCTTAACGC
AGAATGAGTGGAGACTAGACGAGGCCACGGACAGCTTCTTCCAAAACCCA
GACTCGCTCCACAGGGAGTCCATGCGGAACGCTGTGGACAAGAAGAAGCT
GGAGCGGCTGTACGGCAGGTACAAAGATCCACAAGATGAAAACAAAATTG
GAGTCGATGGGATTCAACAGTTTTGTGATGATCTGAGCCTGGATCCTGCC
AGTATCAGTGTATTGGTCATAGCGTGGAAGTTCAGGGCAGCAACTCAGTG
TGAATTTAGCAGAAAGGAATTTCTAGATGGCATGACAGAACTTGGGTGTG
ACAGCATGGAGAAGCTAAAGGCTCTTCTGCCAAGACTGGAGCAGGAGCTG
AAGGACACAGCCAAGTTTAAAGATTTTTATCAGTTTACCTTCACCTTCGC
TAAGAACCCAGGGCAGAAAGTTTTAGACTTAGAAATGGCTGTTGCGTATT
GGAAATTAGTGTTATCTGGAAGTTTTAAATTTTTAGATCTCTGGAACACA
TTCTTAATGGAACATCACAAAAGATCAATTCCAAGGGACACCTGGAACCT
CCTGCTGGACTTTGGAAACATGATTGCGGATGATATGTCTAACTACGATG
AGAAGGAGCTTGGCCGTTCTTATAGATGATTTTTGTAGAATATGCACGG
CCAGTAGTCACAGGTGGAAAACGCAGCCTTTTCTAGGCGGCCG