

Division of Signal Transduction Therapy

Standard Operation Procedure

Preparation of DCUN1D5

Enzyme description:- GST-DCUN1D5

Clone number:- DU23241

Source:- Recombinant

Tag:- N-terminal GST

Purification method:- GSH-Sepharose

Expression level:- 4mg/L

Calculated molecular mass:-

Monoisotopic 54297 Da

Average Mass 54331 Da

[cysteines reduced, methionines have not been oxidised]

Theoretical pI:- 6.04

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 DCUN1D1

<u>Protein</u>	GST-DCUN1D5 1-237 (full length)
<u>Synonyms</u>	
<u>Clone Number</u>	DU23241
<u>Species</u>	Human
<u>Accession Number</u>	Protein: Q9BTE7
<u>Tags</u>	N-terminal GST
Aminoacid sequence of the expressed protein	MSPILGYWKIKGLVQPTRLLEYLEEKYEEHLYERDEGDKWRNKKFELGLEFPNLPYYIDGDVKLTQSMAIIRYIADKHNMLGGCPKERAIEISMLEGAVLDIRYGVSRIAYSKDFETLKVDFLSKLPEMLKMFEDRLCHKTYLNGDHVTHPDFMLYDALDVVLYMDPMCLDAFPKLVCFKKRIEAIPOIDKYLKSSKYIAWPLQGWQATFGGGDHPPKSD <u>LEVLFQGPLG</u> MPVKKKRKSPGVAAVAEDGGLKKCKISSYCRSOPPARLISGEEHFSSKKCLAWFYEYAGPDEVVGPMEKFCEDIGVEPENIMLVLAWKLEAESMGFFTKEEWLKGMTSLQCDTEKLQNKFDLRSQLNDISSFKNIYRYAFDFARDKDQRLDIDTAKSMLALLGRTWPLFSVFYQYLEQSKYRVMNKDQWYNVLEFSRTVHADLSNYDEDGAWPVLLDEFVEWQVRQTS
Native sequence	in bold
Protease cleavage	Prescission site underlined
Cloning sites	BamH1 Not1

**DNA sequence of
insert**

ggatccatgccggtgaagaagaagagaaaaatcccctggggtggcagcagca
gtagcgggaagacggaggcctcaaaaagtgtaaaatctccagctattgcaga
tccaacccccctgctagactaataagtggagaggaacatTTTTcaagcaag
aagtgcctggcttggTTTTatgaatatgcaggtcctgatgaagttgtaggg
ccagaaggaatggaaaaatTTTgtgaagacattgggtgTTgaacctgaaaat
attattatgTTtagTTTTagcgtggaaattggaggctgaaagcatgggattt
TTTaccaaggaagaatggttaaaggaatgacttcattacagtgTgactgc
acagaaaagttacaaaacaaatTTgactTTTTgCGctcacagttgaatgat
atTTcgtcatttaagaatatctacagatatgcTTTTgattTTTgcaagggat
aaagatcagagaagcTTgatattgatactgctaaatctatgTTtagctctt
ctgcttgggaggacatggccactgTTTTcagtTTTTaccagTacctggag
caatcaaagtatcgtgTTatgaacaaagatcaatggtacaatgtattagaa
ttcagcagaacagTccatgctgatcttagtaactatgatgaagatggTgct
TggcctgttcttcttgatgaatTTgTTgagTggcaaaaagTccgTcagaca
tcataggcggccgc