

Division of Signal Transduction Therapy

Standard Operation Procedure

Preparation of GST-Ufc1

Enzyme description:- GST-Ufc1 1-167 (full length)

Clone number:- DU31145

Source:- BL21 recombinant

Tag:- N-terminal GST-tag

Purification method:- GSH-Sepharose

Expression level:- 2mg/L

Calculated molecular mass:-

Monoisotopic 46192 Da

Average Mass 46221 Da

[cysteines reduced, methionines have not been oxidised]

Theoretical pI:- 6.4

Purity:- 90%

Enzyme storage buffer:-

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

Storage temperature:- -80°C

Assay:-

Not tested yet.

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Clone Data Sheet

GST-Ufc1

Protein Ufc1
Synonyms Ufm conjugating enzyme 1, HSPC155
Clone Number DU31145
Species Human
Accession Number Protein: NP_057490 DNA: NM_016406
Tags N-terminal GST-tag

Aminoacid sequence of the expressed protein MSPILGYWKIKGLVQPTRLLEYLEEKYEHLIERDEGDKWRNKKFELGLEFPNLPYYIDGDVKLTQSMATIRYIADKHNMLGGCPKERAEISMLEGAVLDIRYGVSRIAYSKDFETLKVDFLSKLPPEMLKMFEDRLCHKTYLNGDHVTHPDFMLYDALDVVLYMDPMCLDAFPKLVCFKKRIEAIPOIDKYLKSSKYIAWPLQGWQATFGGGDHPKSDLEVLFOGPLGSM**ADEATR**RVVSEIPVLKTN**AGPRDRELWVQRLKEEYQSLIRYVENNKNADNDWFRLESNKEGTRWFGKCYWYIHDLKYEFDIEFDIPITCPTT**AP**EIAVPELDGKTAKMYRGGKICLTDHFKPLWARNVPKFGLAHLMALGLGPWLAVEIPDLIQGVIQHKKECNQ**

Native sequence in bold
Protease cleavage Precission protease site underlined
Cloning sites BamH1 / NotI

DNA sequence of insert
GGATCCATGGCGGATGAAGCCACGCGACGTGTTGTGTCTGAGATCCCGGTGCTGAAGACTAACGCCGACCCCGAGATCGTGAGTTGTGGGTGCAGCGACTGAAGGAGGAATATCAGTCCCTTATCCGGTATGTGGAGAACAACAAGAATGCTGACAACGATTGGTTCGACTGGAGTCCAACAAGGAAGGAAGTTCGGTGTGGAAAATGCTGGTATATCCATGACCTCCTGAAATATGAGTTTGACATCGAGTTTGACATTCCATCACATGTCCTACTACTGCCCCAGAAATTGCA GTTCCTGAGCTGGATGGAAAGACAGCAAAGATGTACAGGGGTGGCAAATATGCCTGACGGATCATTTCAAACCTTTGTGGGCCAGGAATGTGCCAAATTTGGACTAGCTCATCTCATGGCTCTGGGGCTGGGTCCATGGCTGGCAGTG GAAATCCCTGATCTGATTGAGAAAGGCGTCATCCAACACAAAGAGAAATGCAACCAATGAGCGGCCGC