

## *Division of Signal Transduction Therapy*

### **Standard Operating Procedure**

#### **Preparation of C15orf41 [1 – 281]**

**Enzyme description:-** C15orf41 [1 - 281]

**Clone number:-** DU 49143

**Source:-** Recombinant

**Expression system:-** *E.coli*

**Tag:-** N-terminal GST

**Purification method:-** GSH Sepharose

**Calculated molecular mass:-**

Monoisotopic 59, 049.99 daltons

Average Mass 59, 088.11 daltons

[cysteines reduced, methionines have not been oxidised

**Theoretical pI:-** 6.00

**Purity:-** >80 %

**Enzyme storage buffer:-**

50 mM Tris-HCl pH 7.5, 270 mM Sucrose, 150 mM NaCl, 0.1 mM EGTA,  
0.1 % 2-mercaptoethanol, 0.02 % Brij-35, 1 mM benzamidine, 0.2 mM PMSF

**Storage temperature:-** -70 °C

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**Clone Data Sheet**

**C15orf41 [1 - 281]**

**Protein** C15orf41 [1 -281]

**Clone number** DU 49143

**Species** Human

**Accession number** NM\_001130010.2

**Tags** N-terminal GST

**Bacterially expressed protein**  
MSPILGYWKIKGLVQPTRLLEYLEEKYEEHYERDEGDKWRNKKFELG  
LEFPNLPLYIDGDVKLTQSMAIIRYIADKHNMLGGCPKERAESIMLEGA  
VLDIERYGVSRIAYSKDFETLKVDFLSKLPEMLKMFEDRLCHKTYLNGDH  
VTHPDFMLYDALDVVLYMDPMCLDAFPKLVCFKKRIEAIPQIDKYLKSS  
KYIAWPLQGWQATFGGGDHPPKSDLEVLFOGPLGSMILTAKAQYDEIAQC  
LVSVPPTRQSLRKLQRFPSQSQATLLSIFSQEYQKHIKRTHAKHHTSE  
AIESYYQRYLNGVVNGAAPVLLDLANEVDYAPSLMARLILERFLQEHE  
ETPPSKSIINSMLRDPSQIPDGVLANQVYQCIVNDCCYGPLVDCIKHAI  
GHEHEVLLRDLLKEKNLSFLDEDQLRAKGYDKTPDFILQVPVAVEGHII  
HWIESKASFGDECSSHAYLHDQFWSYWNRFGPGLVIYWYGFIOELDCNR  
ERGILLKACFPTNIVTLCHSIA

**Native sequence** Amino acids M1 – A281 (end) of human C15orf41.

Residue M232 of the fusion protein is equivalent to M1 of the native enzyme. The GST tag is located at residues 1 – 220.

**Protease cleavage** PreScission (LEVLFQGP) residues 221 - 228

**Cloning sites** *Bam*H1 and *Not*1 sites of pGEX6P-1

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| <u>Nucleotide</u><br><u>Sequence of insert</u> | ggatccATGATACTGACCAAAGCTCAGTACGACGAGATAGCCCAGTGCC<br>TAGTGTCTGTGCCGCCTACCAGGCAGAGCCTGAGGAAGCTGAAGCAGAG<br>GTTTCCCAGTCATCGCAGGCCACTCTGCTGAGCATCTTCTCCCAGGAG<br>TACCAGAAACACATTAAAAGAACACATGCCAACATCATACTTCGGAAAG<br>CAATTGAAAGTTATTACCAAGAGGTACCTGAATGGAGTGGTGAAAAATGG<br>AGCTGCCAGTGCTCCTGGACCTGGCCAATGAGGTGGACTATGCGCCC<br>TCATTAATGGCTCGGCTTATACTGGAGAGGTTCTACAGGAACACGAGG<br>AAACTCCACCCTCCAAGTCTATTATAAATAGTATGCTACGGGACCCCTTC<br>TCAGATTCCAGATGGAGTTCTAGCAAATCAGGTCTATCAGTGCATTGTG<br>AACGACTGCTGTTACGGACCACTAGTGGACTGCATCAAGCATGCCATTG<br>GTCATGAGCATGAGGTCTGCTGAGAGACTTGCTTAGAGAAAAACCT<br>GTCCTCTAGATGAAGATCAGCTCGTCAAAGGGTTATGACAAAACA<br>CCAGACTTCATTACAAGTACCAAGTGTGCTGAGAGACTTGCTTAGAGGGCACATAATT<br>ACTGGATTGAAAGCAAAGCCTCATTGGTGATGAATGTAGCCACCACGC<br>CTACCTGCATGACCAGTTCTGGAGCTACTGGAATAGATTGGGCCAGGC<br>TTAGTCATCTATTGGTATGGATTATCCAGGAGCTGGACTGCAACCGGG<br>AAAGGGGCATCCTGCTCAAAGCCTTTCCCCACGAACATTGTCACCTT<br>ATGCCACAGCATAGCTttagcgccgc |
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