

Division of Signal Transduction Therapy

Standard Operation Procedure

Preparation of ZNRF2

Enzyme description:- GST-ZNRF2 1-242

Clone number:- DU16232

Source:- Recombinant

Tag:- N-terminal GST

Purification method:- GSH-Sepharose

Expression level:- 1 mg/L

Calculated molecular mass:-

Monoisotopic 50906 Da

Average Mass 50936 Da

[cysteines reduced, methionines have not been oxidised]

Theoretical pI:- 6.46

Purity:- 70%

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 ZNRF2

| | |
|---|---|
| <u>Protein</u> | GST-ZNRF2 1 - 242 (full length) |
| <u>Synonyms</u> | RNF202 |
| <u>Clone Number</u> | DU16232 |
| <u>Species</u> | human |
| <u>Accession Number</u> | Protein: Q8NHG8 DNA: NM_147128.3 |
| <u>Tags</u> | N-terminal GST |
| Aminoacid sequence of the expressed protein | MSPILGYWKIKGLVQPTRLLEYLEEKYEEHLYERDEGDKWRNKKFELGLEFPNLPPYYIDGDVKLTQSMAIIRYIADKHNMLGGCPKERAIEISMLEGAVLDIRYGVSR IAYSKDFETLKVDFLSKLPEMLKMFEDRLCHKTYLNGDHVTHPDFMLYDALDVVLYMDPMCLDAFPKLVCFKKRIEAIPOIDKYLKSSKYIAWPLQGWQATFGGGDHPKSDLEVLFOGPLGSMGAKQSGPAAANGRTRAYS GSDLPSSSSGGANGTAGGGGGARAAAAGRFP AQVPSAHQPSASGGAAAAA AAPAAPAAPRSRSLGGAVGSVASGARAAQSPFSIPNSSSGPYGSQDSVHS SPEDGGGGRDRPVGGSPGGPRLVIGSLPAHLSPHMFGGFKCPVCSKRVSS DEMDLHLMCLTKPRITYNEDVLSKDAGECAICLEELOQGD TTIARLPCLC IYHKGCIDWFEVNRSCPEHPSD |
| Native sequence | in bold |
| Protease cleavage | Prescission site underlined |
| Cloning sites | BamH1 EcoR1 |
| <u>DNA sequence of insert</u> | ggatccatgggcgccaaacagagcggccccggccgcccgtaacggccgcacgcgcgcgtactcgggctcggatctaccttcagtagcagcggagggcgccaatgggaccgcggggcggcggggcgctcgggccgccgcccggggaggttcccggctcaggtgccagcgcaccagcccagcgcctccggcggcgcgcggcggccgcggcggccccggcagccccggcggccccgcgcagccgctccctcggcggggccgtggggagcgtggcgctcgggggccccgcgcggcgcagtccccctcagcatcccgaacagcagcagcggcccgtacggctcgcaggactcgggtgcacagcagccctgaggacggcggcggcggccgggaccggccggtggggcgggagccccggcgggcccgcgcctggtgatcggctccttaccagctcacctctcgcgcacatgtttgaggatttaagtgccttgtatgctcaaaatgtgatacctcagatgaaatggatttgcatcttgtaatgtgtttaacaaagccacgaataacctataatgaggatgtactgagtaaagatgctggggaa tgtgcaatatgccttgaagaattgcagcagggagatactatagcagcactgccttgtctatgcatatatcataaaggctgcatagatgaatggtttgaagtaaatagatcttgccctgagcacccttcagattaagaattc |