

Division of Signal Transduction Therapy

Standard Operation Procedure

Preparation of His-Trabid (245-697)

Enzyme description:- His-Trabid (245-697)

Clone number:- DU22468

Source:- BL21 Recombinant

Tag:- N-terminal

Purification method:- N-terminal His₆ tag

Expression level:- 2 mg/L

Calculated molecular mass:-

Monoisotopic 54759 Da
Average Mass 54792 Da
[cysteines reduced, methionines have not been oxidised]

Theoretical pI:- 6.20

Purity:- 50%

Enzyme storage buffer:-

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

Storage temperature:- -80°C

Assay:-

Protease activity against K29 and K33 linked Ubiquitin dimers

Assay conditions:-

Buffer: 40 mM Tris pH 7.5, 1 mM DTT.

Analysis by SDS-PAGE or MALDI-TOF

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Clone Data Sheet

His-Trabid (245-697)

<u>Protein</u>	His-Trabid (245-697)
<u>Synonyms</u>	ZRANB1
<u>Clone Number</u>	DU22468
<u>Species</u>	Human
<u>Accession Number</u>	Protein: Q9UGI0 DNA: NM_017580.2
<u>Tags</u>	N-terminal 6His-tag
<u>Amino acid sequence of expressed protein</u>	MGSSHHHHHHSSGLEVLFGQPRSLEVDFFKKLKQIKNRMKKTDWLFNLACVGVV EGDLAAIEAYKSSGGDIARQLTADEVRLLNRPFAFDVGYTLVHLAIRFORQDM LAILLTEVSQQAAKCIPAMVCPPELTEQIRREIAASLHQKRGDFACYFLTDLVT FTLPADIEDLPPTVQEKLFDEVLDRDVOKELEESPIINWSLELATRLDSRLY ALWNRTAGDCLLDSVLQATWGIYDKDSVLRKALHDSLHDCSHWFYTRWKDWES WYSQSFGLHFSLREEQWQEDWAFILSLASQPGASLEQTHIFVLAHILRRPIIV YGVKYYKSFRRGETLGYTRFQGVYLLWEQSFQWKSPIALGYTRGHFSALVAM ENDGYGNRGAGANLNTDDVTITFLPLVDSERKLLHVHFLSAQELGNEEQQEK LLREWLDCCVTEGGVLVAMQKSSRRRNHPLVLTQMVKWLDRYRQIRPCTSL
<u>Native sequence</u>	in bold
<u>Protease cleavage</u>	Prescission Protease site underlined
<u>Cloning sites</u>	BglII/Not1 Into BamH1/Not1 Vector
<u>DNA sequence of insert</u>	agatctcttgaagtagactttaaaaactaaagcaaattaaaaacaggatgaa aaagactgattggctcttcctcaatgcttgtgtgggggttgtagaaggatgatt tagctgccatagaagcatacaagtcacaggaggagacattgcacgtcagctc accgcagatgaagtacgcttgcctgaatcgtccttctgcctttgatggttgcta tactcttgtacacttggctatacgttttcagaggcaggatagctagcaatat tgcttacagagggtgtctcaacaagcagcaaagtgattccagcaatgggtgtgt cctgaactgacagaacaaatccggagagagatagctgcctctcttcacagag aaaggggattttgcttgcctattttctgactgaccttgtaacatttacattgc cagcagatattgaagatttgcccccaacagtcacaagaaaaattatttgatgag gtgcttgatagagacgttcaaaaagaattagaagaagaatctccaattattaa ctggctccttggattggctacacgcttgacagtcgactgtatgactttgga accggactgcaggagactgcctacttgattcagttctacaagctacctggggc atctatgacaaggactcagtgcttcggaaagccctgcatgacagcctgcatga ctggtcacattgggttttacacacgctggaaagattgggaatcatggtattctc agagctttgggtttacatttttcttgagagaagaacagtgggcaagaagactgg gcatttatactctctcttgcctagtcagcctggagcaagcttgagcagacgca catttttgactggcacatattcttagacgaccaattatagtttatggagtaa aatattacaagagtttccggggagaaacttttaggatatactcggtttcaaggt gtttatctgcctttgtgtgggaacagagttttggttgaaaagtcaggattgc tctgggttatacagaggggcccacttctctgctttggttgccatggaaaatgatg gctatggcaaccgaggtgctggtgctaattctcaataccgatgatgatgacc atcacatttttgcctctgggtgacagtgaaaggaagctactccatgtgcactt cctttctgctcaggagctaggtaatgaggaacagcaagaaaaactgctcaggg agtggctggactgctgtgtgacggagggggagttctgggtgcatgcagaag agttctcggcggcgaaatcaccctgggtcactcagatggtagaaaaatggct

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