

Division of Signal Transduction Therapy

Standard Operation Procedure

Preparation of GST-UBXN8

Enzyme description:- UBXN8 67-270

Clone number:- DU20778

Source:- Recombinant

Tag:- N-terminal GST

Purification method:- GSH-Sepharose

Expression level:- 1mg/L

Calculated molecular mass:-

Monoisotopic 50831 Da

Average Mass 50863 Da

[cysteines reduced, methionines have not been oxidised]

Theoretical pI:- 6.09

Purity:- 80%

Enzyme storage buffer:-

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

Storage temperature:- -80°C

Assay:-

Division of Signal Transduction Therapy

Clone Data Sheet

Protein name GST-UBXN8 67-270

| | |
|---------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <u>Protein</u> | UBXN8 67-270 |
| <u>Synonyms</u> | Rep-8, UBXD6 |
| <u>Clone Number</u> | DU20778 |
| <u>Species</u> | Human |
| <u>Accession Number</u> | Protein: O00124 DNA: NM_005671 |
| <u>Tags</u> | N-terminal GST |
| Aminoacid sequence of the expressed protein | MSPILGYWKIKGLVQPTRLLEYLEEKYEEHLYERDEGDKWRNKKFELGL EFPNLPYYIDGDVKLTQSMATIRYIADKHNMLGGCPKERAETSMLEGAVL DIRYGVSRIAYS KDFETLKVDFLSKLP PEMLKMFEDRLCHKTYLNGDHVTH PDFMLYDALDVVLYMDPMCLDAFPKLVCFKKRIEAIPOIDKYLKSSKYIA WPLQGWQATFGGGDHPKSDENLYFQGGSPPEFPGRRVYLKEEEEKNEKRO KLVRKKQQAQGEKASRYIENVLKPHEMKLRKLEERFYQMTGEAWKLSS GHKLGGDEGTSQTSFETS NREAAKSQNLPKPLTEFPSPAEQPTCKEIPDL PEEPSQTAEEVVTV ALRCPSGNVLR RR FLKSYSSQVLF DM TRIGYHISL YSLSTSFPRRPLAVEGGQ SLEDIGITVDTVLILEEKEQTN |
| Native sequence | residues 67-270 of UBXN8 in bold |
| Protease cleavage | TEV-site underlined |
| Cloning sites | Sal1 / Not1 |

**DNA sequence of
the expression
cassette**

ATGTCCCCTATACTAGGTTATTGGAAAATTAAGGGCCTTGTGCAACCCACTCG
ACTTCTTTTGGAAATATCTTGAAGAAAAATATGAAGAGCATTGTATGAGCGCG
ATGAAGGTGATAAATGGCGAAACAAAAAGTTTGAATTGGGTTTGGAGTTTCCC
AATCTTCCTTATTATATTGATGGTGATGTTAAATTAACACAGTCTATGGCCAT
CATACGTTATATAGCTGACAAGCACAACATGTTGGGTGGTTGTCCAAAAGAGC
GTGCAGAGATTTCAATGCTTGAAGGAGCGGTTTTGGATATTAGATACGGTGT
TCGAGAATTGCATATAGTAAAGACTTTGAAACTCTCAAAGTTGATTTTCTTAG
CAAGCTACCTGAAATGCTGAAAATGTTTGAAGATCGTTTATGTCATAAAACAT
ATTTAAATGGTGATCATGTAACCCATCCTGACTTCATGTTGTATGACGCTCTT
GATGTTGTTTTATACATGGACCCAATGTGCCTGGATGCGTTCCCAAAATTAGT
TTGTTTTAAAAACGTATTGAAGCTATCCACAAATTGATAAGTACTTGAAAT
CCAGCAAGTATATAGCATGGCCTTTGCAGGGCTGGCAAGCCACGTTTGGTGGT
GGCGACCATCCTCCAAAATCGGAT**GAAAACCTGTATTTTCAGGGCGGATCCCC**
GGAATTCCCGGGTCGACgaGTTTTATCTGAAGGAAGAAGAAGAAAAGAATGAGA
AAAGACAAAACTTGTGAGAAAAAACAACAAGAAGCACAAGGAGAGAAGGCC
AGCAGATACATAGAGAATGTTTTAAAACCTCACCAGGAAATGAAATTGAGAAA
ACTGGAGGAGCGCTTTTATCAAATGACGGGTGAAGCCTGGAAATTAAGCAGTG
GTCACAAACTTGGGGGTGATGAAGGTACAAGTCAGACATCTTTTGAAACATCA
AACAGAGAAGCAGCAAAGAGCCAGAACTTGCCTAAACCTTTAACTGAATTTCC
GTCTCCTGCTGAACAGCCCACATGCAAGGAGATTCCTGATTTACCTGAAGAAC
CTTCTCAAACAGCAGAAGAAGTAGTTACTGTTGCTCTCCGATGTCCAGTGGG
AATGTCCTGAGGAGAAGGTTTTTGAAGTCCTACAGCTCACAGGTCTTATTTGA
CTGGATGACGAGAATTGGGTACCACATATCTCTATACAGCCTTTCTACTTCCT
TTCCCAGACGGCCTCTGGCAGTGGAGGGAGGCCAGTCGCTGGAGGACATAGGA
ATAACTGTGGACACTGTACTCATCCTGGAGGAGAAGGAGCAGACCAACTAGGC
GGCCGC