

Division of Signal Transduction Therapy

Standard Operation Procedure

Preparation of His-USP10 C424S

Enzyme description:- His-USP10 C424S

Clone number:- DU22202

Source:- Sf21 Recombinant

Tag:- N-terminal His

Purification method:- Ni⁺⁺-Sephadex

Expression level:- 10 mg/L

Calculated molecular mass:-

Monoisotopic 91881 Da

Average Mass 91935 Da

[cysteines reduced, methionines have not been oxidised]

Theoretical pI:- 5.39

Purity:- 90%

Enzyme storage buffer:-

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

Storage temperature:- -80°C

Assay:-

Ub-Rho110-Gly cleavage assay monitored by Ex/Em 485/535 nm

Assay buffer:-

40 mM Tris pH 7.5, 100 mM NaCl, 5 mM DTT, 0.01% Triton X-100, 0.005% Ovalbumin, 0.5 μM Ub-Rho110-Gly

Division of Signal Transduction Therapy

Clone Data Sheet

His-USP10 C424S

<u>Protein</u>	His-USP10
<u>Synonyms</u>	
<u>Clone Number</u>	DU22202
<u>Species</u>	Human
<u>Accession Number</u>	Protein: Q14694 DNA: NM_005153.2
<u>Tags</u>	N-terminal His ₆ tag
Amino acid sequence of expressed protein	MSYYHHHHHDYDIPTTENLYFOGAMGSGIQRPTSTSSLVAAAMALHSPQYIF GDFSPDEFNQFFVTPRSSVELPPYSGTVLCGTQAVDKLPDGOEYQRIEFGVDE VIEPSDTLPRTPSYSISSTLNPQAPEFILGCTASKITPDGITKEASYGSIDCQ YPGSALALDGSSNVEAEVLENDGVSGGLGQERERKKKKRPPGYYSYKDGDD SISTEALVNGHANSVAVNSVSAEDADEFMGDMPPPLTPRTCNSPQNSTDSVSDI VPDSPFPGALGSDTRTAGOPEGGPGADFGQSCFPAEAGRDTLSRTAGAQPCVG TDTTENLGVANGQILESSGEGTATNGVELHTTESIDLDPKPEASPPADGTG SASGTLPVSQPKSWASLFHDSKPSSSSPVAVVETKYSPPAISPLVSEKQVEVK EGLVPVSEDPVAIKIAELLENVTLIHKPVSLQPRGLINKGNWSYINATLQALV ASPPMYHLMKFIPLYSKVQRPCSTSTMIDSFVRLMNEFTNMPVPPKPRQALGD KIVRDIRPGAAFEPTYIYRLLTVNKSSLSEKGRQEDAEYLGFI LNGLHEEML NLKLLSPSNEKLTISNGPKNHSVNEEEQEEQEGSEDEWEQVGNKTSVTR QADFVQTPITGIFGGHIRSVVYQSSKESATLQPFPTLQLDIQSDKIRTVQDA LESLVARESVOGYTTTKQVEISRRVTLEKLPVVLVHLKRFVYEKTGGCQK LIKNIYEPVDLEISKELLSPGVKNKNFKCHRTRYRLFVVYHHGNSATGGHYTT DVFQIGLNGWLRIDDQTVKVINQYQVVKPTAERTAYLLYRRVDLL
Native sequence	in bold
Protease cleavage	TEV cleavage site underlined
Cloning sites	

DNA sequence of insert

GCGGCCGCgatggcctccacagcccgcagtatatTTTTGGAGATTTAGCCC
tgatgaattcaatcaattcttTGTGACTCCTCGATCTTCAGTTGAGCTTCCTC
catacagtggaacagttctgtgtggcacacaggctgtggataaactacctgat
ggacaagaatatcagagaattgagtttGGTGTGCGATGAAGTCATTGAACCCAG
tgacactttGCCGAGAACCCCGACTACAGTATTTCAAGCACACTGAACCCTC
aggcccctgaatttattctcggttgtacagcttccaaaataaccctgatggg
atcactaaagaagcaagctatggctccatcgactgccagtagccaggctctgc
cctcgccttggatggaagttctaattgtggaggcggaagtttggaaaatgatg
gtgtctcaggtggctcttgacaaaagggagcgtaaaaagaagaaaagcggcca
cctggatattacagctatTTGAAAGATGGTGGCGATGATAGTATCTCCACAGA
agccctgggtcaatggccatgccaattcagcagctccgaacagtgctcagtgag
aggatgcagaatttatgggtgacatgcctccgccacttacgccaggacttgt
aacagccccagaactccacagactctgtcagtgacattgtgcctgacagtcc
tttccccggagcactcggcagtgacaccaggactgcagggcagccagaggggg
gccccggggctgatttTGGTCAGTCTCTGCTTCCCTGCAGAGGCTGGCAGAGAC
accctgtcaaggacagctggggctcagccctgcgttggtagccgataactactga
aaaccttgagttgctaattggacaaataacttgaatcctcgggtgagggcacag
ctaccaacgggggtggagttgcacaccacggaagcatagacttggaccaacc
aaaccgagagtgcatcacctcctgctgacggcacgggctctgcatcaggcac
ccttctgtcagccagcccaagtcctgggccagcctcttcatgattctaagc
ccttctcctcctcgcgggtggcctatgtggaaactaagtattccctcccgcc
atatctccctggtttctgaaaagcaggttgaagtcaaagaagggttgttcc
ggtttcagaggatcctgtagccataaagattgcagagttgctggagaatgtaa
ccctaataccataaaccagtgctcgttgaaccccgctgggctgatcaataaagg
aactggctcttacattaatgctacactgcaggcattgggtgcttgcgccgat
gtaccacctgatgaagttcattcctctgtattccaaagtgcaaaggccttcta
cgtcaaacacccatgatagacagcttTGTTCGGCTAATGAATGAGTTCCTAAT
atgccagtagctccaaaacccgcacaagctcctggagataaaaatcgtgaggg
tattcgcctggagctgccttTgagccacatatatttacagactcctgacag
ttaacaagtcaagcctgtctgaaaagggctgacaagaagatgctgaggaatac
ttaggcttcatctaaatggacttcatgaggaaatggtgaacctaaagaagct
tctctcaccaagtaatgaaaaacttacgatttccaacggccccaaaaaccact
cggctaatgaagaagagcaggaagaacaaggtgaaggaagcaggatgaatgg
gaacaagtgggcccccggaacaagacttccgtcaccgccaggcggatTTTGT
tcagactccaatcacggcatttttGGTGGACACATCAGTCTGTGGTTACC
agcagagttcaaaagaatctgccactttgcagccatttttcagttgcagttg
gatatccagtcagacaagatacgcacagctccaggatgcactggagagcttggg
ggcaagagaatctgtccaaggttataaccacaaaaaccaacaagaggtgaga
taagtcgaagagtgactctggaaaaactccctcctgtcctcgtgctgcacctg
aacgattcgtttatgagaagactgggtgggtgccagaagcttatcaaaaatat
tgaatatcctgtggacttggaaattagtaaagaactgcttctccagggtta
aaaataagaattttaaatgccaccgaacctatcggtccttgcagtggtctac
catcacggcaacagtgcgacggcggccattacactacagacgtcttccagat
cggctctgaatggctggctgcgcatcgatgaccagacagtcagggtgatcaacc
agtaccaggtgggtgaaaccaactgctgaacgcacagcctacctcctgtattac
cgccgagtggaacctgctgtaaGCGGCCGC