

Product datasheet for SC125841

USP5 (BC005139) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	USP5 (BC005139) Human Untagged Clone
Tag:	Tag Free
Symbol:	USP5
Synonyms:	ISOT; ubiquitin-specific protease-5 (ubiquitin isopeptidase T); ubiquitin isopeptidase T; ubiquitin specific peptidase 5; ubiquitin specific peptidase 5 (isopeptidase T); ubiquitin specific protease 5 (isopeptidase T)
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene sequence for BC005139 edited

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GCCGTGTGTGGAGAAGCTGCTGCCGGTGTGTCATGGCGGAGCTGAGTGAGGAGGCGCTGCTG
TCAGTATTACCGACGATCCGGGTCCCTAAGGCTGGAGACCGGGTCCACAAAGACGAGTGC
GCCTTCTCCTTCGACACGCCGAGTCTGAGGGGGGCTCTACATCTGTATGAACACGTTT
CTGGGCTTTGGGAAACAGTATGTGGAGAGACATTTCAATAAGACCGGCCAGCGAGTCTAC
TTGCACCTCCGGCGGACCCGGCGCCGAAAGAGGAGACCCTGCTACAGGCACTGGAGAC
CCACCCGGAAGAAGCCACGCGGCTGGCTATTGGTGTGAAGGCGGATTTGACCTTAGC
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TGCTGGCCACAGAGAAGGTGAAGTACACCCAGCGAGTTGACTACATCATGCAGCTGCCT
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 TCTGCTTCTGTGTGCGCCCGCCAGCCCTGGTGTGGAGGGAGGGTCTCGTTTGTG
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 GACTTGCCTCCTGCCTCAGTCTTCCCCACCCTGTCTTCTTCTGTCTTCTCTGGAA
 AATGCCAAAATACACGATGTGAATAAAAGTACAACGGCTAAAAAAAAAAAAAAAAAAAA
 AAAAA

5' Read Nucleotide Sequence:

>OriGene 5' read for BC005139 unedited
 TTCAGAATTTTGAATACGAACACTATAGGGCGCCGCGAATTCGCACGAGGGCCGCTG
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 TCCTTCGACACCGCGAGTCTGAGGGGGCCTCTACATCTGTATGAACACGTTTCTGGGC
 TTTGGAAACAGTATGTGGAGAGACATTTCAATAAGACCGGCCAGCGAGTCTACTGCAC
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 CGGAAGAAGCCCACGCGCTGGCTATTGGTGTGAAGCGGATTTGACCTTAGCGAGGAG
 AAGTTTGAATTAGACGAGGATGTGAAGATTGTCATTTTGCAGATTACCTGGAGATTGCC
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 CTGTGGAGCACTACCGAGAGACAGGCTACCCGTTAGCTGTCAAGCTGGGCCACATCACCC
 CTGATGGAGCTGACGTGTACTCATATGATGAAGATGACATGGTCTTGGACCCAGCCTGG
 CTGACCCCTGTCCACTTCGCATCAACTGCTGAAATGCCAAAACAACAACA

Restriction Sites:

Please inquire

ACCN:

BC005139

OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
Components:	The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).
Reconstitution Method:	<ol style="list-style-type: none">1. Centrifuge at 5,000xg for 5min.2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.3. Close the tube and incubate for 10 minutes at room temperature.4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.
RefSeq:	<u>BC005139.2</u> , <u>AAH05139.1</u>
RefSeq Size:	3185 bp
Locus ID:	8078
Cytogenetics:	12p13.31
Protein Families:	Druggable Genome, Protease
Gene Summary:	Ubiquitin (see MIM 191339)-dependent proteolysis is a complex pathway of protein metabolism implicated in such diverse cellular functions as maintenance of chromatin structure, receptor function, and degradation of abnormal proteins. A late step of the process involves disassembly of the polyubiquitin chains on degraded proteins into ubiquitin monomers. USP5 disassembles branched polyubiquitin chains by a sequential exo mechanism, starting at the proximal end of the chain (Wilkinson et al., 1995 [PubMed 7578059]).[supplied by OMIM, Mar 2010]