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Product datasheet for MC205822

Stub1 (NM_019719) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Stub1 (NM_019719) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Stub1
Synonyms:	0610033N24Rik; 2210017D18Rik; 2310040B03Rik; AW046544; Chip
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>BC027427 GGCCGCAGGCAGCTCCTCCCGATTCCCGAGGAAGCCCCTCGAGAGCGGTCTGATCTGCGGGCCTCTCTTC TACCCTCAATTCCGCCTTCCTACCGGCGGTCCAGACGTTCCCAGGCTGTCGCGTGAGCCCGTGTGTGCCC TGGTGGTGCGCTAGGACCCGGGCCTAGTGACCGGCCCTCGGAAGGCCACTTCTCAATGACCGCTGCCACG TTCGCCCAGCTTGGGGCCGGAGGGCGGGGCTTGAGCGCCGATGGGCGGAGCCTTGGTCTGAGCAGGGTAG GTCTCGGTTACTGTAGGGCGGGGCCTGTAGAGCGCGGCGGAAGCTTCTCAGAGCTAAGGGAACTGGCTCA ATCCACGAGGCTCCGCCTTTGCTCACGTGTCCCCATGCCAGCTCCGCCCCACACCGGAAGTTCCGGTGGC GGATCGCCGACCGGGCGGAGCTGATCGCTGCGCGGGCTGCGAGATCTAGGTGGCCGGGCGCGGAGCCCAA GCCGTGCCGCGCGGCGCCATGAAGGGCAAGGAGGAAAAGGAGGGCGGCGCGCGGCTGGGCACTGGTGGCG GCGGCAGCCCTGATAAGAGCCCGAGTGCGCAAGAGCTCAAGGAGCAGGGAAACCGGCTCTTCGTGGGCCG CAAGTACCCGGAGGCGGCGGCCTGCTACGGCCGCGCCATCACTCGGAACCCACTTGTGGCAGTGTACTAC ACTAACCGGGCCCTGTGCTATCTGAAGATGCAGCAGCCTGAACAGGCACTTGCTGACTGCCGGCGAGCCC TGGAGCTGGACGGGCAGTCTGTGAAGGCGCACTTCTTCCTGGGGCAGTGCCAGCTGGAGATGGAGAGTTA TGATGAGGCCATTGCCAATCTGCAGCGAGCCTATAGTTTGGCCAAGGAGCAGCGACTCAACTTTGGGGAT GATATTCCTAGTGCCCTTCGCATTGCTAAGAAGAAGCGCTGGAACAGTATCGAGGAACGGCGCATCCACC AGGAGAGTGAGCTGCATTCATATCTCACCAGGCTCATTGCTGCTGAGCGAGAGAGGGAACTGGAGGAGTG TCAGCGGAACCACGAGGGTCATGAAGATGATGGCCACATCCGGGCCCAGCAGGCCTGCATTGAGGCCAAG CACGATAAATACATGGCAGATATGGATGAGCTCTTCTCTCAGGTGGACGAGAAAAGAAAGAAGCGAGATA TCCCTGACTACTTGTGTGGCAAGATTAGCTTTGAGCTGATGCGGGAACCCTGCATTACACCCAGTGGTAT CACCTATGACCGCAAGGACATTGAGGAGCACCTGCAGCGTGTGGGCCACTTTGACCCTGTGACCCGGAGC CCTCTGACCCAGGAACAGCTCATCCCCAACTTGGCCATGAAGGAAGTCATTGACGCTTTCATCTCTGAGA ACGGCTGGGTAGAGGACTATTGAGGCCCCATGTCCTGCCTGGCACCCTGGCCCAGGAGGATCTGGAGACG GAAGCTCCAGTCCCTGTATAGTTTGTGTCCCTGGGCCTGCCCCCATCGGCCCTGCTGATGGGTTCTGAAC TGCTCCCCTTCTCAGCATACCCCTTGCTGGACCATGAGCCTCCCTTGTCCCCCTTCTGGGCTGGAGAGTG GGTGAGGGTGGGCTGAGGTTGCTGCTGCTGCCACTGTCCTGTAATAAAGTCTGTGAGCCCTAAAAAAAAA AAAAAAAAAAAAAAAAAAAA

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Restriction Sites:	RsrII-NotI
ACCN:	NM_019719
Insert Size:	915 bp
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:	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:	BC027427, AAH27427
RefSeq Size:	1700 bp
RefSeq ORF:	915 bp
Locus ID:	56424
UniProt ID:	Q9WUD1
Cytogenetics:	17 12.93 cM

Gene Summary: E3 ubiquitin-protein ligase which targets misfolded chaperone substrates towards proteasomal degradation. Collaborates with ATXN3 in the degradation of misfolded chaperone substrates: ATXN3 restricting the length of ubiquitin chain attached to STUB1/CHIP substrates and preventing further chain extension. Ubiquitinates NOS1 in concert with Hsp70 and Hsp40. Modulates the activity of several chaperone complexes, including Hsp70, Hsc70 and Hsp90. Mediates transfer of non-canonical short ubiquitin chains to HSPA8 that have no effect on HSPA8 degradation. Mediates polyubiquitination of DNA polymerase beta (POLB) at 'Lys-41', 'Lys-61' and 'Lys-81', thereby playing a role in base-excision repair: catalyzes polyubiquitination by amplifying the HUWE1/ARF-BP1-dependent monoubiquitination and leading to POLB-degradation by the proteasome. Mediates polyubiquitination of CYP3A4. Ubiquitinates EPHA2 and may regulate the receptor stability and activity through proteasomal degradation. Negatively regulates the suppressive function of regulatory T-cells (Treg) during inflammation by mediating the ubiquitination and degradation of FOXP3 in a HSPA1A/B-dependent manner (PubMed:23973223). Acts as a co-chaperone for HSPA1A and HSPA1B chaperone proteins and promotes ubiquitin-mediated protein degradation. Likely mediates polyubiquitination and downregulates plasma membrane expression of PD-L1/CD274, an immune inhibitory ligand critical for immune tolerance to self and antitumor immunity. Negatively regulates TGF-beta signaling by modulating the basal level of SMAD3 via ubiquitin-mediated degradation (By similarity). May regulate myosin assembly in striated muscles together with UBE4B and VCP/p97 by targeting myosin chaperone UNC45B for proteasomal degradation (By similarity). Mediates ubiquitination of RIPK3 leading to its subsequent proteasome-dependent degradation (By similarity).[UniProtKB/Swiss-Prot Function]