

Product datasheet for **SC126784**

UBE2G2 (NM_182688) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	UBE2G2 (NM_182688) Human Untagged Clone
Tag:	Tag Free
Symbol:	UBE2G2
Synonyms:	UBC7
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL6</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC126784 sequence for NM_182688 edited (data generated by NextGen Sequencing)

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ATGAATGAAGAGAACTTTTTTGAATGGGAGGCATTGATCATGGGCCAGAAGACACCTGC
TTTGAGTTTGGTGTTCCTGCCATCCTGAGTTTCCCACTTGATTACCGTTAAGTCCC
CCAAAGATGAGATTTACCTGTGAGATGTTTCATCCCAACATCTACCCTGATGGGAGAGTC
TGCATTTCCATCCTCCACGCGCCAGGCGATGACCCCATGGGCTACGAGAGCAGCGCGGAG
CGGTGGAGTCCTGTGCAGAGTGTGGAGAAGATCCTGCTGTGCGTGGTGGAGCATGCTGGCA
GAGCCCAATGACGAAAGTGGAGCTAACGTGGATGCGTCCAAAATGTGGCGCGATGACCGG
GAGCAGTTCTATAAGATTGCCAAGCAGATCGTCCAGAAGTCTCTGGGACTGTGA
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Clone variation with respect to NM_182688.2



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5' Read Nucleotide Sequence:	>OriGene 5' read for NM_182688 unedited CCCCCCATACCCCGCCCGTTGNCGCTTTGGGCGGTAGGCGTGTACGGTGGGAGGTCTA TATAAGCAGTTCTTATTTAGGTGACACTATAGAATACAAGCTACTTGTCTTTTTGCAGC GGCCGCGAATTCGGCACGAGGCACGCGCGGGCTGAGGCGAGGTCGCTCGGCGCAGCTGT TGCGGGCCATGGCGGGGACCGCTCAAGAGGCTGATGGCCGAGTACAAACAATTAACA CTGAATCCTCCGGAAGGAATTGTAGCAGGCCCATGAATGAAGAGAACTTTTTGAATGG GAGGCATTGATCATGGGCCAGAAAGACACCTGCTTTGAGTTTGGTGTTCCTGCCATC CTGAGTTTCCACTTGATTACCCGTTAAGTCCCCAAAGATGAGATTTACCTGTGAGATG TTTCATCCCAACATCTACCCTGATGGGAGAGTCTGCATTTCCATCCTCCACGCGCCAGGC GATGACCCCATGGGCTACGAGAGCAGCGCGGAGCGGTGGAGTCTGTGCAGAGTGTGGAG AAGATCCTGCTGTCGGTGGTGGAGCATGCTGGCAGAGCCCAATGACGAAAGTGGAGCTAAC GTGGATGCGTCCAAAATGTGGCGCATGACCGGGAGCAGTTCTATAAGAGTGCCAAGCAG ATCGTCCAGAAGTCTCTGGGACTGTGAGACCTGGCCTCGCACAGGCGCACACACCCGCC AATCAGCTCAGCATTCTCCCCGGCACACTTAGTGACAGTGATGCTCTGTGCTGGTACCA AACTAGGCAGACTTGCAAGAACCGGCATTTTTTTTTTTCAACCTTTCTACTTCAACA GGCTTCTCTTCTGAAAGGAGACTTAATGTCGAATATTGACAACCTACTGCAGTTNTACAG GA
Restriction Sites:	NotI-NotI
ACCN:	NM_182688
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:	NM_182688.1 , NP_872630.1
RefSeq Size:	3034 bp
RefSeq ORF:	414 bp
Locus ID:	7327
UniProt ID:	P60604
Cytogenetics:	21q22.3
Protein Families:	Druggable Genome
Protein Pathways:	Parkinson's disease, Ubiquitin mediated proteolysis

Gene Summary:

The modification of proteins with ubiquitin is an important cellular mechanism for targeting abnormal or short-lived proteins for degradation. Ubiquitination involves at least three classes of enzymes: ubiquitin-activating enzymes, or E1s, ubiquitin-conjugating enzymes, or E2s, and ubiquitin-protein ligases, or E3s. This gene encodes a member of the E2 ubiquitin-conjugating enzyme family. The encoded protein shares 100% sequence identity with the mouse counterpart. This gene is ubiquitously expressed, with high expression seen in adult muscle. Three alternatively spliced transcript variants encoding distinct isoforms have been found for this gene. [provided by RefSeq, Jan 2011]

Transcript Variant: This variant (2) has an additional exon in the 5' region, resulting in a downstream AUG start codon, as compared to variant 1. The resulting isoform (2) has a shorter N-terminus, as compared to isoform 1. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.