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Product datasheet for SC118048

UBE2G2 (NM_003343) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	UBE2G2 (NM_003343) Human Untagged Clone
Tag:	Tag Free
Symbol:	UBE2G2
Synonyms:	UBC7
Mammalian Cell Selection:	None
Vector:	pCMV6-XL5
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF:

>OriGene ORF within SC118048 sequence for NM_003343 edited (data generated by NextGen Sequencing)

ATGGCGGGGACCGCGCTCAAGAGGCTGATGGCCGAGTACAAACAATTAACACTGAATCCT
CCGGAAGGAATTGTAGCAGGCCCCATGAATGAAGAGAACTTTTTTGAATGGGAGGCATTG
ATCATGGGCCCAGAAGACACCTGCTTTGAGTTTGGTGTTTTTCCTGCCATCCTGAGTTTC
CCACTTGATTACCCGTTAAGTCCCCCAAAGATGAGATTTACCTGTGAGATGTTTCATCCC
AACATCTACCCTGATGGGAGAGTCTGCATTTCCATCCTCCACGCGCCAGGCGATGACCCC
ATGGGCTACGAGAGCAGCGCGGAGCGGTGGAGTCCTGTGCAGAGTGTGGAGAAGATCCTG
CTGTCGGTGGTGAGCATGCTGGCAGAGCCCAATGACGAAAGTGGAGCTAACGTGGATGCG
TCCAAAAATGTGGCGCGATGACCGGGAGCAGTTCTATAAGATTGCCAAGCAGATCGTCCAG
AAGTCTCTGGGACTGTGA

Clone variation with respect to NM_003343.5

View online »

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_003343 unedited
GGTTCAAAATTGTATACGACTCCTATAGGCGGCCGCGCAATTCGCACGAGGCTCGGCGCA
GCTGTTGCGGGGCCATGGCGGGGACCGCGCTCAAGAGGCTGATGGCCGAGTACAAACAAT
TAACACTGAATCCTCCGGAAGGAATTGTAGCAGGCCCCATGAATGAAGAGAACTTTTTTG
AATGGGAGGCATTGATCATGGGCCCAGAAGACACCTGCTTTGAGTTTGGTGTTTTTCCTG
CCATCCTGAGTTTCCCACTTGATTACCCGTTAAGTCCCCCAAAGATGAGATTTACCTGTG
AGATGTTTCATCCCAACATCTACCCTGATGGGAGAGTCTGCATTTCCATCCTCCACGCGC
CAGGCGATGACCCCATGGGCTACGAGAGCAGCGCGGAGCGGTGGAGTCCTGTGCAGAGTG
TGGAGAAGATCCTGCTGTCGGTGGTGAGCATGCTGGCAGAGCCCAATGACGAAAGTGGAG
CTAACGTGGATGCGTCCAAAATGTGGCGCGATGACCGGGAGCAGTTCTATAAGATTGCCA
AGCAGATCGTCCAGAAGTCTCTGGGACTGTGAGACCTGGCCTCGCACAGGCGCGCACACA
CCGCCAAGCAGCTCAGCATTCTCCCCCGGCACACTTAGTGACAGTGATGCTCTGTGCTGG
TACCAAACAAGGCAGACTTGCAAGAACCATGGCATCTTTTTTTTTTTTCAAACCTTTCCT
ACTTCAAACAGGCTTCTCTTCTGAAATGATGACTTAATGTCGAATATTGACAGCTTACTG
CAGTTTTACAGTATTCCTCACAAAGGGCTTCAGGTAGATTATCAGAGCTGTTAGCACTAC
CTCTNCCCGCTGAAACCAGCAGTTCATGGCCTTCTGTGGATTTCCTCCTTCCTGNAGTGT
GAAGGGGGTT

Restriction Sites: NotI-NotI

ACCN: NM_003343

Insert Size: 3730 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: NM_003343.4, NP_003334.2

RefSeq Size: 2919 bp

RefSeq ORF: 498 bp

Locus ID: 7327

UniProt ID: P60604

Cytogenetics: 21q22.3

Domains: UBCc

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 (1) encodes the longest 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.