

# Product datasheet for SC320597

# Ubiquitin (UBB) (NM\_018955) Human Untagged Clone

## **Product data:**

#### **Product Type: Expression Plasmids Product Name:** Ubiquitin (UBB) (NM\_018955) Human Untagged Clone Tag: Tag Free Symbol: Ubiquitin HEL-S-50 Synonyms: Mammalian Cell Neomycin Selection: Vector: pCMV6-AC (PS100020) E. coli Selection: Ampicillin (100 ug/mL) **Fully Sequenced ORF:** >OriGene sequence for NM\_018955.2 CACTCGTTGCATAAATTTGCGCTCCGCCAGCCCGGAGCATTTAGGGGGCGGTTGGCTTTGT ATCCGCTAACAGGTCAAAATGCAGATCTTCGTGAAAACCCTTACCGGCAAGACCATCACC CTTGAGGTGGAGCCCAGTGACACCATCGAAAATGTGAAGGCCAAGATCCAGGATAAGGAA GGCATTCCCCCCGACCAGCAGAGGCTCATCTTTGCAGGCAAGCAGCTGGAAGACGGCCGT ACTCTTTCTGACTACAACATCCAGAAGGAGTCGACCCTGCACCTGGTCCTGCGTCTGAGA GGTGGTATGCAGATCTTCGTGAAGACCCTGACCGGCAAGACCATCACCCTGGAAGTGGAG GACCAGCAGAGGCTCATCTTTGCAGGCAAGCAGCTGGAAGATGGCCGCACTCTTTCTGAC TACAACATCCAGAAGGAGTCGACCTGCACCTGGTCCTGCGTCTGAGAGGTGGTATGCAG ATCTTCGTGAAGACCCTGACCGGCAAGACCATCACTCTGGAGGTGGAGCCCAGTGACACC ATCGAAAATGTGAAGGCCAAGATCCAAGATAAAGAAGGCATCCCCCCCGACCAGCAGAGG CTCATCTTTGCAGGCAAGCAGCTGGAAGATGGCCGCACTCTTTCTGACTACAACATCCAG AAAGAGTCGACCTGCACCTGGTCCTGCGCCTGAGGGGTGGCTGTTAATTCTTCAGTCAT GGCATTCGCAGTGCCCAGTGATGGCATTACTCTGCACTATAGCCATTTGCCCCCAACTTAA **GTTTAGAAATTACAAGTTTCAGTAATAGCTGAACCTGTTCAAAATGTTAATAAAGGTTTC** GTTGCATGGTAAAAAAAAAAAAAAAAAAAAA **Restriction Sites:** Please inquire ACCN: NM 018955



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### OriGene Technologies, Inc.

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	uitin (UBB) (NM_018955) Human Untagged Clone – SC320597
OTI Disclaimer:	Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at <u>custsupport@origene.com</u> or by calling 301.340.3188 option 3 for pricing and delivery.
	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. <u>More info</u>
OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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 Metho	<ul> <li>d: 1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ul>
RefSeq:	<u>NM 018955.2, NP 061828.1</u>
RefSeq Size:	971 bp
RefSeq ORF:	690 bp
Locus ID:	7314
UniProt ID:	<u>P0CG47</u>
Cytogenetics:	17p11.2
Domains:	UBQ
Protein Families:	Druggable Genome
Protein Pathways:	Parkinson's disease

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### **GRIGENE** Ubiquitin (UBB) (NM\_018955) Human Untagged Clone – SC320597

Gene Summary:This gene encodes ubiquitin, one of the most conserved proteins known. Ubiquitin has a<br/>major role in targeting cellular proteins for degradation by the 26S proteosome. It is also<br/>involved in the maintenance of chromatin structure, the regulation of gene expression, and<br/>the stress response. Ubiquitin is synthesized as a precursor protein consisting of either<br/>polyubiquitin chains or a single ubiquitin moiety fused to an unrelated protein. This gene<br/>consists of three direct repeats of the ubiquitin coding sequence with no spacer sequence.<br/>Consequently, the protein is expressed as a polyubiquitin precursor with a final amino acid<br/>after the last repeat. An aberrant form of this protein has been detected in patients with<br/>Alzheimer's disease and Down syndrome. Pseudogenes of this gene are located on<br/>chromosomes 1, 2, 13, and 17. Alternative splicing results in multiple transcript variants.<br/>[provided by RefSeq, Aug 2013]<br/>Transcript Variant: This variant (1) represents the longest transcript Variants 1, 2, 3, 4, 5, and

Transcript Variant: This variant (1) represents the longest transcript. Variants 1, 2, 3, 4, 5, and 6 encode the same protein.

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