

## Product datasheet for SC112258

### UBL5 (NM\_024292) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	UBL5 (NM_024292) Human Untagged Clone
Tag:	Tag Free
Symbol:	UBL5
Synonyms:	HUB1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC112258 sequence for NM_024292 edited (data generated by NextGen Sequencing)

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ATGATCGAGGTTGTTTGCAACGACCGTCTGGGGAAGAAGTCCGCGTTAAATGCAACACG
GATGATACCATCGGGACCTTAAGAAGCTGATTGCAGCCCAAAGTGGTACCCGTTGGAAC
AAGATTGCTCTGAAGAAGTGGTACACGATTTTTAAGGACCACGTGTCTCTGGGGACTAT
GAAATCCACGATGGGATGAACCTGGAGCTTTATTATCAATAG
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Clone variation with respect to NM\_024292.3

5' Read Nucleotide Sequence: >OriGene 5' read for NM\_024292 unedited

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CCGTGCACAATTGTATACGACTACTATAGGCGGCCGCGCAATTCGACGAGGGTTCAGC
GCTCGGGTGAGGAGCTGGTGGCGTCGGCAGGTTGAGGCGATTGAGCTCCAGCTAGGAT
GATCGAGGTTGTTTGCAACGACCGTCTGGGGAAGAAGTCCGCGTTAAATGCAACACGGA
TGATACCATCGGGACCTTAAGAAGCTGATTGCAGCCCAAAGTGGTACCCGTTGGAACAA
GATTGCTCTGAAGAAGTGGTACACGATTTTTAAGGACCACGTGTCTCTGGGGACTATGA
AATCCACGATGGGATGAACCTGGAGCTTTATTATCAATAGATGAGAATCCTCATCTTCT
GCCCGCTTTCTCTCCCATCCTCATCCCCACACTGGGATAGATGCTTGTGTTTTGAAAAA
CTCACCTTAATAAAGACTTAGATGTTAAAAAAAAAAAAAAAAAACTCGACTCTAGATTGC
GGCCGCGTCCATAGCTGTTTCTGAACAGATCCCGGGTGGCATCCCTGTGACCCCTCCCC
AGTGCCTCTCCTGGCCCTGGAAGTTGCCACTCCAGTGCCACCAGCCTTGTCTAATAAA
ATTAAGTTGCATCATTTTGTCTGACTAGGTGTCCTTCTATAATATTATGGGGTGGAGGG
GGTGGTATGGAGCAAGGGGCAAGTTGGGCAGACAACCTGTAGGGCCCTGCGCGTCTATTG
GGAACCACGCTGGAGTGAACGCCCAACCTTGGCTCACTGCAAACCTCCCGCCCTGGG
TTCAAGCGAGTATCCTGCCTTAGCCTCCGAGTTGTTGGGGATCTCCGCCATGCTTGAAC
CGGCTCAACTCATTTTTGTTCTTTGTGCAACACGGGTTTCCACCAATAGGCCCGCCTG
GC
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<b>3' Read Nucleotide Sequence:</b>	>OriGene 3' read for NM_024292 unedited CCGTCGGCCGNTTCGAGATCGAGTTTTTTTTTTTTTTTTTTAAACATCTAAGTCTTTATT AAGGTGAGTTTTTACAAACAAGCATCTATCCCAGTGTGGGGGATGAGGATGGGAGAGGAA AGCGGGGCAGGAAGATGAGGATTCTCATCTATTGATAATAAAGCTCCAGGTTTATCCCAT CGTGGATTTTCATAGTCCCCAGAGACACGTGGTCCTTAAAAATCGTGTACCACTTCTTCA GGACAATCTTGTCCAACGGGTACCAGTTTGGGCTGCAATCAGCTTCTTAAGTCCCCGA TGGTATCATCCGTGTTGCATTTAACGCGGACCTTCTTCCCCAGACGGTCGTTGCAAACAA CCTCGATCATCCTAGCTGGAGCTCGAATCGCCTCGAACCTGCCGACGCCACCAGCTCCTC ACCCGAGCGCTGAACCCTCGTGCCGAATTCGCGGCCGCCCTATAGTGAGTCGTATTACAA AATTCTGACGGTTCACTAAACGAGCTCTGCTTATATAGACCTCCCACCGTACACGCCTAC CGCCCATTTGCGTCAACGGGGCGGGTTATTACGACATTTGGAAAGTCCCGTTGATTTT GGTGCCAAAACAACTCCATTGACGTCAATGGGGTGGAGACTTGAAATCCCCGTGAGT CAAACCGCTATCCACGCCATTGGTGTACTGCCAAAACCGCATCACCTTGGTAATACCGA TGACTAATACCTAGATGTACTGCCAAGGTAGGAAAGTCCCGTAAGGTCATGCACTGGGCC TAATGCCAGGCGCCCTCTACGCCATTGACGTAATACGGGGCGGACCTGGCCTATGAA CCTCGAAGTCTGCCAAGCGGCCATTTACGCCAATCCTCACCCATTGCGTCATGGCAA GCCCACTGGCCGCACCTGGGACCATAT
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_024292
<b>Insert Size:</b>	440 bp
<b>OTI Disclaimer:</b>	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).
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>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> </ol>
<b>RefSeq:</b>	<a href="#">NM_024292.2</a> , <a href="#">NP_077268.1</a>
<b>RefSeq Size:</b>	537 bp
<b>RefSeq ORF:</b>	222 bp
<b>Locus ID:</b>	59286
<b>UniProt ID:</b>	<a href="#">Q9BZL1</a>
<b>Cytogenetics:</b>	19p13.2
<b>Domains:</b>	UBQ

**Gene Summary:**

This gene encodes a member of a group of proteins similar to ubiquitin. The encoded protein is not thought to degrade proteins like ubiquitin but to affect their function through being bound to target proteins by an isopeptide bond. The gene product has been studied as a link to predisposition to obesity based on its expression in *Psammomys obesus*, the fat sand rat, which is an animal model for obesity studies. Variation in this gene was found to be significantly associated with some metabolic traits (PMID: 15331561) but not associated with childhood obesity (PMID: 19189687). Pseudogenes of this gene are located on chromosomes 3, 5 and 17. Multiple alternatively spliced variants, encoding the same protein, have been identified. [provided by RefSeq, Jan 2013]

Transcript Variant: This variant (1) represents the longer transcript. Both variants 1 and 2 encode the same protein.