

Product datasheet for **SC326262**

OGA (NM_001142434) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	OGA (NM_001142434) Human Untagged Clone
Tag:	Tag Free
Symbol:	OGA
Synonyms:	MEA5; MGEA5; NCOAT
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

Fully Sequenced ORF: >OriGene ORF within SC326262 sequence for NM_001142434 edited (data generated by NextGen Sequencing)

```

ATGGTGCAGAAGGAGAGTCAAGCGACGTTGGAGGAGCGGGAGAGCGAGCTCAGCTCCAACCCCTGCCGCT
CTGCGGGGGCATCGCTGGAGCCCGCCGAGCTCCGGCACCCGGAGAAGACAACCCCGCGGGCTGGGGG
AGCGCGGTGGCGGGCTGCAGGAGGGCTCGGCGGTTCTCTGCGGTGTGGTGAAGGATTTTATGGA
AGACCTTGGGTTATGGAACAGAGAAAAGAACTCTTTAGAAGGCTCCAGAAATGGGAATTAATACATACT
TGTATGCCCCAAAAGATGACTACAAACATAGGATGTTTTGGCGAGAGATGTATTAGTGGAGGAAGCTGA
GCAACTTATGACTCTCATCTGCTGCACGAGAATATGAGATAGAGTTTCTATGCGATCTCACCTGGA
TTGGATATCACTTTTTCTAACCCCAAGGAAGTATCCACATTGAAACGTAATTTGGACCAGGTTTCTCAGT
TTGGGTGCAGATCATTGCTTTGCTTTTGTATGATATAGACCATAATATGTGTGCAGCAGACAAAGAGGT
ATTCAGTCTTTTGTCTATGCCAAGTCTCCATCACAATGAAATCTATCAGTACCTAGGAGAGCCAGAA
ACTTTCTTCTGTCCACAGAATACTGTGGCACTTTCTGTTATCCAAATGTGTCTCAGTCTCCATATT
TAAGGACTGTGGGTGAAAAGCTTCTACCTGGAATTGAAGTGCTTTGGACAGGTCCCAAAGTTGTTTCTAA
AGAAATCCAGTAGAGTCCATCGAAGAGGTTTCTAAGATTATTAAGAGAGCTCCAGTAATCTGGGATAAC
ATTCATGCTAATGATTATGATCAGAAGAGACTGTTTCTGGGCCCTACAAGGAAGATCCACAGAACTCA
TCCCACGGTAAAAGGAGTCTCACTAATCCAAATTTGTAATTTGAAGCCAACTACGTTGCTATCCACAC
CCTTGCCACCTGGTACAATCAAACATGAATGGAGTGAGAAAAGATGTAGTGATGAGTAGGCAAGTTGCA
CACAGTGGAGCTAAAGCAAGTGTAGTTGATGGGACTCCTTTAGTTGCAGCACCCTCTTTAAATGCCACAA
CCGTAGTAACAACAGTTTATCAGGAGCCATTATGAGCCAGGGAGCAGCCTTGAGTGGTGAGCCTACTAC
TCTGACCAAGGAAGAAGAAAAGAAACAGCCTGATGAAGAACCATGGACATGGTGGTGGAAAACAAGAA
GAAACGGACCAAGAATGACAATCAAACTACTGAGTGAATTTGTTGAAGCGAAAATGGCAGAGGAATTGA
AACCAATGGACACTGATAAAGAGAGCATAGCTGAATCAAAATCCCCAGAGATGCCATGCAAGAAGATTG
TATTAGTGACATTGCCCCATGCAAAGTATGAAACAGACAAACAAGGAGCAGTTTGTGCCAGGTCCAAAT
GAAAAGCCTTTGTACTGCGGAACAGTACCCTGGAGGATTTGCAGTACTTGTCTGATCTATTCTACC
TTCCTTACGAGCATGGACCCAAAGGAGCACAGATGTTACGGGAATTTCAATGGCTTCGAGCAAATAGTAG
TGTTGTCAAGTCAATTGCAAAGGAAAAGACTCTAAAAAATGAAGAATGGCGGTACAGAGCAGCCAAG
TTTGAAGAGATGTGTGGACTAGTATGGGAATGTTCACTCGGCTCTCAATTTGCCAACAGGACAATTC
TTTATGACATGTACTCTATGTTTGGGATATCAAGAGTATAATGTCTATGGTGAAGTCTTTTGTACAGTG
GTTAGGGTGTCTAGTCACTTCTCAGCACAATTCTTAATTGGAGACCAAGAACCTGGGCCCTTTAGAGGT
GGTCTAGCAGGAGAGTTCAGCGTTTGTGCAATTGATGGGGCAAATGATCTCTTTTTTTCAGCCACCTC
CACTGACTCTACCTCCAAAGTTTATACTATCAGACCTTATTTTCCCTAAGGATGAGGCATCCGTGTACAA
GATTTGCAGAGAAATGTATGACGATGGAGTGGGTTTACCCTTTCAAAGTCAGCCTGATCTTATTGGAGAC
AAGTTAGTAGGAGGGCTGCTTTCCCTCAGCCTGGATTACTGCTTTGCTCTAGAAGATGAAGATGGCATAT
GTGGTTATGCCTTGGGCACTGTAGATGTGACCCCTTTATTAATAAATGTAATAATTTCTGGATCCCTT
CATGCAGGAGAAGTATACCAAGCCAAATGGTGACAAGGAAGTCTCTGAGGCTGAGAAAATAATGTTGAGT
TCCATGAAGAACAGGAAGTACTGCCAGAACTTCTCTGCTAATTTCCCTTCTCTGATAAAGATGGACA
TTCACAAAAAAGTAACTGACCAAGTGTGGCCAAAAGCATGATGGCTTGCCTCTCTCTCACTGAAGGC
TAATGGCTCCCGGGAGCTTTCTGTGAAGTGAGACCAGATGATAAAAAGAAATCTGGAATTTTACAGCAAG
TTAGGATGTTTTGAAATTGCAAAAATGGAAGGATTTCCAAAGGATGTGGTTATACTTGGTCGGAGCCTGT
GA
    
```

Clone variation with respect to NM_001142434.1
1645:a=>g

Restriction Sites: Please inquire
ACCN: NM_001142434
Insert Size: 3100 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).
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 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:	<u>NM_001142434.1</u> , <u>NP_001135906.1</u>
RefSeq Size:	5061 bp
RefSeq ORF:	2592 bp
Locus ID:	10724
UniProt ID:	<u>O60502</u>
Cytogenetics:	10q24.32
Gene Summary:	<p>The dynamic modification of cytoplasmic and nuclear proteins by O-linked N-acetylglucosamine (O-GlcNAc) addition and removal on serine and threonine residues is catalyzed by OGT (MIM 300255), which adds O-GlcNAc, and MGEA5, a glycosidase that removes O-GlcNAc modifications (Gao et al., 2001 [PubMed 11148210]).[supplied by OMIM, Mar 2008]</p> <p>Transcript Variant: This variant (2) lacks an alternate in-frame exon in the coding region, compared to variant 1. This results in a shorter protein (isoform b), compared to isoform a.</p>