

Product datasheet for **RG222411**

OGA (NM_012215) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	OGA (NM_012215) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	OGA
Synonyms:	MEA5; MGEA5; NCOAT
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG222411 representing NM_012215
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGTGCAGAAGGAGAGTCAAGCGACGTTGGAGGAGCGGGAGAGCGAGCTCAGCTCCAACCTGCCGCCT
 CTGCGGGGGCATCGCTGGAGCCGCCGAGCTCCGGCACCCGGAGAAGACAACCCCGCGGGGCTGGGGG
 AGCGGGCGGTGGCCGGGGCTGCAGGAGGGCTCGGCGGTTCTCTGCGGTGTGGTGAAGGATTTTATGGA
 AGACCTTGGGTTATGGAACAGAGAAAAGAACTCTTTAGAAGGCTCCAGAAATGGGAATTAATACATACT
 TGTATGCCCAAAGATGACTACAAACATAGGATGTTTTGGCGAGAGATGATTCAGTGGAGGAAGCTGA
 GCAACTTATGACTCTCATCTCTGCTGCACGAGAATATGAGATAGAGTTCATCTATGCGATCTCACCTGGA
 TTGGATATCACTTTTTCTAACCCCAAGGAAGTATCCACATTGAAACGTAAATTGGACCAGGTTTCTCAGT
 TTGGGTGCAGATCACTTCTGCTTTTCTGTTTGTATGATATAGACCATAATATGTGTGCAGCAGACAAAGAGT
 ATTCAGTCTTTTCTGCTCATGCCAAGTCTCCATCACAAATGAAATCTATCAGTACCTAGGAGAGCCAGAA
 ACTTTCTCTTCTGTCCACAGAATACTGTGGCACTTTCTGTTATCCAAATGTGTCTCAGTCTCCATATT
 TAAGGACTGTGGGTGAAAAGCTTCTACCTGGAATTGAAGTGCTTTGGACAGGTCCCAAAGTTGTTCTAA
 AGAAATCCAGTAGAGTCCATCGAAGAGGTTTCTAAGATTATTAAGAGAGCTCCAGTAATCTGGGATAAC
 ATTCATGCTAATGATTATGATCAGAAGAGACTGTTTCTGGGCCGTACAAGGAAGATCCACAGAACTCA
 TCCCACGGTAAAAGGAGTCTCACTAATCCAAATTGTGAATTTGAAGCCAACACTACGTTGCTATCCACAC
 CCTTGCCACCTGGTACAATCAAACATGAATGGAGTGAGAAAAGATGTAGTGACTGACAGTGAAGAT
 AGTACTGTGTCCATCCAGATAAAATAGAAAATGAAGGCAGTGTGAAGATATTGAACTGATGTACTCT
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 CAGCAGTAGGCAAGTTGCACACAGTGGAGCTAAAGCAAGTGTAGTTGATGGGACTCCTTTAGTTGCAGCA
 CCCTCTTTAAATGCCACAACCGTAGTAACAACAGTTTATCAGGAGCCATTATGAGCCAGGGAGCAGCCT
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 GGTGGTGGAAAAACAAGAAGAACCGACCACAAGAATGACAATCAAATACTGAGTGAAATTTGTTGAAGCG
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 TGCCATGCAAGAAGATTGATTAGTGACATTGCCCCATGCAAACCTGATGAACAGACAAACAAGGAGCA
 GTTTGTGCCAGGTCCAAATGAAAAGCCTTTGTACACTGCGGAACCAAGTACCCTGGAGGATTTGCAGTTA
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 GGCCTCGAGCAAATAGTAGTGTGTCAGTGTCAATTGCAAAGGAAAAGACTCTGAAAAAATGAAGAATG
 GCGGTCACGAGCAGCAAGTTTGAAGAGATGTGTGGACTAGTGATGGGAATGTTCACTCGGCTCTCCAAT
 TGTGCCAACAGGACAATCTTTATGACATGTACTCCTATGTTGGGATATCAAGAGTATAATGTCTATGG
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 AAATTTCTGGATCCCTTCATGCAAGGAGAAGTATACCAAGCCAATGGTGACAAGGAACCTCTGAGGC
 TGAGAAAAATATGTTGAGTTTCCATGAAGAACAGGAAGTACTGCCAGAACTTTCTTTGCTAATTTCCCT
 TCTCTGATAAAGATGGACATTCACAAAAAGTAACTGACCCAAGTGTGGCCAAAAGCATGATGGCTTGCC
 TCCTGTCTTCACTGAAGGCTAATGGCTCCCGGGAGCTTTCTGTGAAGTGAAGCAGATGATAAAGAAAT
 TCTGGAATTTTACAGCAAGTTAGGATGTTTTGAAATTGCAAAAATGGAAGGATTTCAAAGGATGTGGTT
 ATACTTGGTCCGAGCCTG

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >RG222411 representing NM_012215
 Red=Cloning site Green=Tags(s)

MVQKESQATLEERESELSSNPAASAGASLEPPAAPAPGEDNPAGAGGAAVAGAAGGARFLCGVVEGFYGRPWVMEQRKELFRRLQKWELNTYLYAPKDDYKHRMFWREMYSVEEAEQLMTLISAAREYEIEFIYAI SPGLDITFSNPKEVSTLKRKLDQVSQFGCRSFALLFDDIDHNMCAADKEVFSFAHAQVSITNEIYQYLGEPE TFLFCPTTEYCGTFYCYPNVSQSPYLRTVGEKLLPGIEVLWTGPKVVSKEIPVESIEEVSKI IKRAPVIWDNIHANDYDQKRLFLGPYKGRSTELIPRLKGVLTNPNCFEFANYVAIHTLATWYKSNMNGVRKDDVMTDSE DSTVSIQIKLENEGSDEDIETDVLVYSPQMAKLLALTEWLQEFVPHQYSSRQVAHSGAKASVVDGTPLVAA PSLNATTVVTTYQEPIMSQGAALSGEPTTLTKEEEKKQPDEEPMVMVVEKQEETHKNDNQILSEIVEA KMAEELKPMDDKESIAESKSPMSMQEDCISDIAPMQTDEQTNKEQFVPGPNEKPLYTAEPVTLEDLQL LADLFYLPYEHGPKGAQMLREFQWLRANSSVSVNCKGKDKSEKIEEWSRAAKFEEMCGLVMGMFTRL SN CANRTILYDMYSYVWDIKSISMSVKSQVWLGRSHSSAQFLIGDQEPWAFRGGLAGEFQRLLPIDGAND LFFQPPPLTPTSKVYTI RPYFPKDEASVYKICREMYDDGVLFPQSQPD LIGDKLVGGLLSLDYCFVLEDEDGICGYALGTVDPFPIKCKISWIPFMQEKYTKPNGDKELSEA EKIMLSFHEEQEVL PETFLANF PSLIKMDIHKKVTDP SVAKSMMACLLSSLKANGSRGAFCEVRPDDKRILEFY SKLGCFEIAKMEGF PKDVI LGRSL

TRTRPLE – GFP Tag – V

Restriction Sites:

SgfI-MluI

Cloning Scheme:

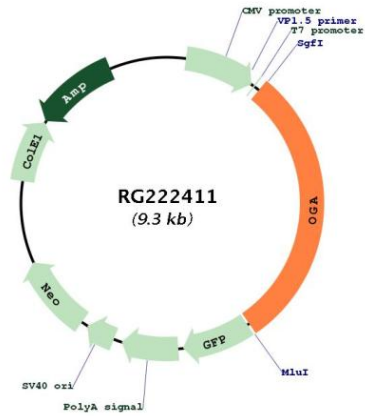


ACCN:

NM_012215

ORF Size:	2748 bp
OTI Disclaimer:	<p>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 custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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. More info</p>
OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
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_012215.5
RefSeq Size:	5147 bp
RefSeq ORF:	2751 bp
Locus ID:	10724
UniProt ID:	O60502
Cytogenetics:	10q24.32
Gene Summary:	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]

Product images:



Circular map for RG222411