

Product datasheet for **RC226720**

OGA (NM_001142434) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	OGA (NM_001142434) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	OGA
Synonyms:	MEA5; MGEA5; NCOAT
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RC226720 representing NM_001142434
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGTGCAGAAGGAGAGTCAAGCGACGTTGGAGGAGCGGAGAGCGAGCTCAGCTCCAACCTGCCGCCT
 CTGCGGGGGCATCGCTGGAGCCCGCGCAGCTCCGGCACCCGGAGAAGACAACCCCGCGGGGCTGGGGG
 AGCGGGCGGTGGCCGGGGCTGCAGGAGGGCTCGGCGGTTCTCTGCGGTGTGGTGAAGGATTTTATGGA
 AGACCTTGGGTTATGGAACAGAGAAAAGAACTCTTTAGAAGGCTCCAGAAATGGGAATTAATACATACT
 TGTATGCCCAAAGATGACTACAAACATAGGATGTTTTGGCGAGAGATGATTCAGTGGAGGAAGCTGA
 GCAACTTATGACTCTCATCTCTGCTGCACGAGAATATGAGATAGAGTTCATCTATGCGATCTCACCTGGA
 TTGGATATCACTTTTTCTAACCCCAAGGAAGTATCCACATTGAAACGTAATTTGGACCAGGTTTCTCAGT
 TTGGGTGCAGATCACTTTGCTTTGCTTTTGTATGATATAGACCATAATATGTGTGCAGCAGACAAAGAGGT
 ATTCAGTTCTTTGCTCATGCCAAGTCTCCATCACAAATGAAATCTATCAGTACCTAGGAGAGCCAGAA
 ACTTTCTCTTGTCCACAGAATACTGTGGCACTTTCTGTTATCCAAATGTGTCTCAGTCTCCATATT
 TAAGGACTGTGGGTGAAAAGCTTCTACCTGGAATTGAAGTGCTTTGGACAGGTCCCAAAGTTGTTTCTAA
 AGAAATCCAGTAGAGTCCATCGAAGAGGTTTCTAAGATTATTAAGAGAGCTCCAGTAATCTGGGATAAC
 ATTCATGCTAATGATTATGATCAGAAGAGACTGTTTCTGGGCCGTACAAGGAAGATCCACAGAACTCA
 TCCCACGGTTAAAAGGAGTCTCACTAATCCAAATTTGGAATTTGAAGCCAACACTACGTTGCTATCCACAC
 CCTTGCCACCTGGTACAATCAAACATGAATGGAGTGAGAAAAGATGTAGTGATGAGTAGGCAAGTTGCA
 CACAGTGGAGCTAAAGCAAGTGTAGTTGATGGGACTCCTTTAGTTGCAGCACCCCTCTTTAAATGCCACAA
 CCGTAGTAACAACAGTTTATCAGGAGCCCATATGAGCCAGGGAGCAGCCTTGAGTGGTGAAGCTACTAC
 TCTGACCAAGGAAGAAGAAAAGAAAACAGCCTGATGAAGAACCCATGGACATGGTGGTGGAAAAACAAGAA
 GAAACGGACCACAGAATGACAATCAAATACTGAGTGAATTTGTTGAAGCGAAAAATGGCAGAGGAATTGA
 AACCAATGGACTGATAAAGAGAGCATAGCTGAATCAAATCCCAGAGATGTCCATGCAAGAAGATTG
 TATTAGTGACATTGCCCCATGCAAACCTGATGAACAGACAAAACAAGGAGCAGTTTGTGCCAGGTCCAAAT
 GAAAAGCCTTTGTACACTGCGGAACCAAGTACCCTGGAGGATTTGCAGTACTTGTCTGATCTATTCTACC
 TTCCTTACGAGCATGGACCCAAAGGAGCACAGATGTTACGGGAATTTCAATGGCTTCGAGCAAATAGTAG
 TGTTGTCAGTGTCAATTGCAAAGGAAAAGACTCTGAAAAAATGAAGAATGGCGGTACGAGCAGCCAAG
 TTTGAAGAGATGTGTGGACTAGTATGGGAATGTTCACTCGGCTCTCAATTTGTCCAACAGGACAATTC
 TTTATGACATGACTCCTATGTTTGGGATATCAAGAGTATAATGTCTATGGTGAAGTCTTTTGTACAGTG
 GTTAGGGTGTCTAGTCATTCTTCAGCACAAATCTTAATTGGAGACCAAGAACCCTGGGCCCTTTAGAGGT
 GGTCTAGCAGGAGAGTTCACGCGTTTGTGCAATTTGATGGGGCAAATGATCTCTTTTTTTCAGCCACCTC
 CACTGACTCCTACCTCCAAAGTTTATACTATCAGACCTTATTTTCTAAGGATGAGGCATCCGTGTACAA
 GATTTGCAGAGAAATGTATGACGATGGAGTGGGTTTACCCTTTCAAAGTCAGCCTGATCTTATTGGAGAC
 AAGTTAGTAGGAGGGCTGCTTTCCTCAGCCTGGATTACTGCTTTGTCTAGAAAGATGAAGATGGCATAT
 GTGGTTATGCCTTGGGCACTGTAGATGTGACCCCTTTATTAATAAATGTAATAATTTCTGGATCCCTT
 CATGCAGGAGAAGTATACCAAGCCAAATGGTGACAAGGAACCTCTGAGGCTGAGAAAAATGTTGAGT
 TTCCATGAAGAACAGGAAGTACTGCCAGAACTTTCCTTGCTAATTTCCCTTCTCTGATAAAGATGGACA
 TTCACAAAAAAGTAACTGACCCAAAGTGTGGCCAAAAGCATGATGGCTTGCTCCTGTCTTCACTGAAGGC
 TAATGGCTCCCGGGGAGCTTTCTGTGAAGTGAGACCAGATGATAAAGAATTCTGGAATTTTACAGCAAG
 TTAGGATGTTTTGAAATTGCAAAAATGGAAGGATTTCCAAAGGATGTGGTTATACTTGGTCGGAGCCTG

ACGCGTACGCGGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC226720 representing NM_001142434
 Red=Cloning site Green=Tags(s)

MVQKESQATLEERESELSSNPAASAGASLEPPAAPAPGEDNPAGAGGAAVAGAAGGARFLCGVVEGFYGRPWVMEQRKELFRRLQKWELNTYLYAPKDDYKHRMFWREMYSVEEAQLMTLISAAREYEIEFIYAIISPLDITFSNPKEVSTLKRKLDQVSQFGCRSFALLFDDIDHNMCAADKEVSSFAHAQVSIITNEYQYLGEPE TFLFCPTTEYCGTFYCYPNVSQSPYLRTVGEKLLPGIEVLWTGPKVVSKEIPVESIEEVSKI IKRAPVIWDNIHANDYDQKRLFLGPKYGRSTELIPRLKGVLTNPNCFEANYVAIHTLATWYKSNMNGVRKDVMSRQVAHSGAKASVVDGTPLVAAPSLNATTVVTTYQEPIMSQGAALSGEPTTLTKEEEKQPDEEPMVMVEKQETDHDKNDNQILSEIVEAKMAEELKPMDDKESIAESKSPMEMSQEDCISDIAPMQTDEQTNKEQFVPGNEKPLYTAEPVTLEDLQLLADLFYLPYEHGPKGAQMLREFQWLRANSSVSVNCKGKDSEKIEEWSRAAKFEEMCGLVMGMFTRL SNCANRTILYDMYSYVWDIKSISMVKSFVQWLGCRSHSSAQFLIGDQEPWAFRGLGAGEFQRLLPIDGANDLFFQPPLTPTSKVYTI RPYFPKDEASVYKICREMYDDGVLPFQSQPDLIGDKLVGGLLSLDYCFVLEDEDGICGYALGTVDVTPFIKKCKISWIPFMQEKYTKPNGDKELSEAEKIMLSFHEEQEVLPETFLANFPSLIKMDIHKKVTDPSVAKSMMACLLSSLKANGSRGAFCEVRPDDKRILEFYSLGCFEIAKMEGFPKDVVILGRSL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

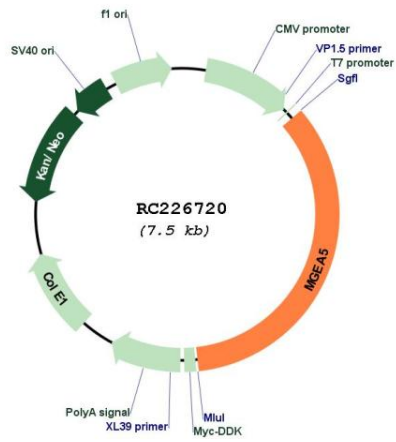
Sgfl-MluI

Cloning Scheme:



ACCN:	NM_001142434
ORF Size:	2589 bp
OTI Disclaimer:	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
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_001142434.1 , NP_001135906.1
RefSeq ORF:	2592 bp
Locus ID:	10724
UniProt ID:	O60502
Cytogenetics:	10q24.32
MW:	96.8 kDa
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 RC226720