

Product datasheet for **RG221824**

Complement C8A (C8A) (NM_000562) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Complement C8A (C8A) (NM_000562) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	C8A
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG221824 representing NM_000562
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTTTGCTGTTGTTTTCTTCATCTTGTCTTTGATGACTTGTGACCTGGGGTAAGTGCACAGGAGAAGG
 TGAACCAGAGAGTAAGACGGGCAGCTACACCCGAGCAGTTACCTGCCAGCTGAGCAACTGGTCAGAGTG
 GACAGATTGCTTTCCGTGCCAGGACAAAAAGTACCGACACCGGAGCCTCTTGACGCAAAACAAGTTGGG
 GGAACCATCTGCAGTGGTGACATCTGGGATCAAGCCAGCTGCTCCAGTTCTACAATTGTGAAGAAAAG
 CACAGTGTGGACAGGATTTCCAGTGAAGGAGACAGGTCGCTGCCTGAAACGCCACCTTGTGTGAATGG
 AGACCAGGACTGCCTTGATGGCTCTGATGAGGACGACTGTGAAGATGTCAGGGCCATTGACGAAGACTGC
 AGCCAGTATGAACCAATCCAGGATCACAGAAGGCAGCCTTGGGGTACAATATCTGACCCAGGAAGATG
 CTCAGAGTGTGTACGATGCCAGTTATTATGGGGCCAGTGTGAGACGGTATAACAATGGGGAATGGAGGGA
 GCTTCGATATGACTCCACCTGTGAACGTCTCTACTATGGAGATGATGAGAAATACTTTCGAAACCCTAC
 AACTTTCTGAAGTACCACCTTGAAGCCCTGGCAGATACTGGAATCTCCTCAGAGTTTTATGATAATGCAA
 ATGACCTTCTTTCCAAAGTAAAAAAGACAAGTCTGACTCATTGGAGTGACCATCGGCATAGGCCCCAGC
 CGGCAGCCCTTTATTGGTGGGTGATGGTGTATCCCACTCACAAAGACATTCATTCTTGAACGAATTAAC
 AAGTATAATGAGAAGAAATTCATTTTACAAGAATCTTCAAAAGGTGCAGACTGCACATTTTAAGATGA
 GGAAGGATGACATTATGCTGGATGAAGGAATGCTGCAGTCATTAATGGAGCTTCCAGATCAGTACAATTA
 TGGCATGTATGCCAAGTTCATCAATGACTATGGCACCCATTACATCACATCTGGATCCATGGGTGGCATT
 TATGAATATATCCTGGTATTGACAAAGCAAAAATGGAATCCCTTGGTATTACCAGCAGAGATATCAGGA
 CATGTTTTGGAGGCTCCTTGGGCATTCAATATGAAGACAAAATAAATGTTGGTGGAGGTTTACAGGAGA
 CCATTGTAAAAAATTTGGAGGTGGCAAACTGAAAGGGCCAGGAAGGCCATGGCTGTGGAAGACATTATT
 TCTCGGGTGCAGGTGGCAGTTCTGGCTGGAGCGGTGGCTTGGCACAGAACAGGAGCACCATTACATACC
 GTTCTGGGGGAGGTCAATAAGTATAATCCTGTTGTTATCGATTTTGGAGATGCAGCCTATCCACGAGGT
 GCTGCGGCACACAAGCCTGGGGCCTCTGGAGGCCAAGCGCCAGAACCTGCGCCGCGCCTTGGACCAGTAT
 CTGATGGAATTCATGCCTGCCGATGTGGGCCTTGCTTCAACAATGGGGTGGCCATCCTCGAGGGCACCA
 GCTGCAGGTGCCAGTCCCGCCTGGGTAGCTTGGGTGCTGCCTGTGAGCAAACACAGACAGAAGGAGCCAA
 AGCAGATGGGAGCTGGAGTTGCTGGAGCTCCTGGTCTGTATGCAGAGCAGGCATCCAGGAAAGGAGAAGA
 GAGTGTGACAATCCAGCACCTCAGAATGGAGGGGCTCGTGTCCAGGGCGGAAAGTACAGACGCAGGCTT
 GC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG221824 representing NM_000562
 Red=Cloning site Green=Tags(s)

MFAVVFVILSLMTCQPGVTAQEKVNRVRRRAATPAAVTCQLSNWSEWTDGFCQDKKYRHRSLQLPNKFG
 GTICSGDIWDQASCSSSTTCVRKAQCGQDFQCKETGRCLKRHLVCNGDQDCLDGSDEDDCEDVRAIDEDC
 SQYEPIPGSQKAALGYNILTQEDAQSVYDASYGGQCETVYNGEWRELRYDSTCERLYYGDDEKYFRKPY
 NFLKYHFEALADTGISSEFYDNANDLLSKVKKDKSDSFGVTIGIGPAGSPLLVGVGVSQDTSFLNELN
 KYNEKKFIFTRIFTKVQTAHFMRKDDIMLDEGMLQSLMELPDQYNYGMYAKFINDYGTHYITSGSMGGI
 YEYILVIDKAKMESLGITSRDITTCFSGSLGIQYEDKINVGGGLSGDHCKKFGGKTERARKAMAVEDII
 SRVRGGSSGWSSGLAQRSTITYRSWGRSLKYNPVVIDFEMQPIHEVLRHTSLGPLEAKRQNLRRALDQY
 LMEFNACRCGPFNNGVPILEGTSRCRCQLGSLGAACEQTQTEGAKADGWSWSCSSWSVCRAGIQERRR
 ECDNPAPQNGGASCPGRKVQTAAC

TRTRPLE – GFP Tag – V

Restriction Sites:

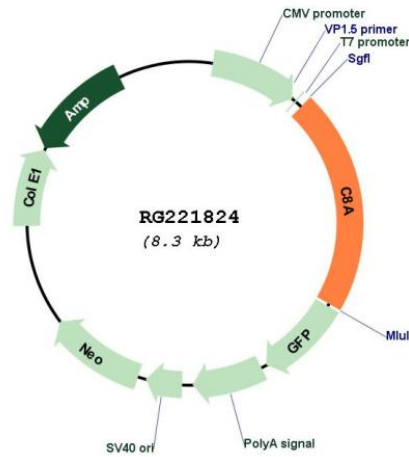
Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN:

NM_000562

ORF Size:	1752 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_000562.1 , NP_000553.1
RefSeq Size:	2397 bp
RefSeq ORF:	1755 bp
Locus ID:	731
UniProt ID:	P07357
Cytogenetics:	1p32.2
Domains:	tsp_1, MACPF, ldl_recept_a
Protein Families:	Druggable Genome, Secreted Protein
Protein Pathways:	Complement and coagulation cascades, Prion diseases, Systemic lupus erythematosus
Gene Summary:	C8 is a component of the complement system and contains three polypeptides, alpha, beta and gamma. This gene encodes the alpha subunit of C8. C8 participates in the formation of the membrane attack complex (MAC). The MAC assembles on bacterial membranes to form a pore, permitting disruption of bacterial membrane organization. Mutations in this gene cause complement C8 alpha-gamma deficiency. [provided by RefSeq, Nov 2008]