

## Product datasheet for **RG238796**

### Complement factor 8 beta (C8B) (NM\_001278543) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Complement factor 8 beta (C8B) (NM_001278543) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Complement factor 8 beta
Synonyms:	C82
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG238796 representing NM\_001278543.  
 Blue=ORF Red=Cloning site Green=Tag(s)

```

GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGCATCGCC
ATGCGGGAGTGTGGATGTTACCCCTGATGCCATTGATTGTGAGCTGTCTAGTTGGTCTCTTGGACCACA
TGTGACCCTGTGAGAAGAAAAGGTACAGGTATGCCTACTTGTCCAGCCCTCTCAGTTCCATGGGGAA
CCGTGCAACTTCTCTGACAAGGAAGTCAAGACTGTGTTACCAACAGACCATGCAGAAGTCAAGTCCGA
TGTGAAGGCTTTGTGTGTGCACAGACAGGAAGGTGTGTAACCGCAGACTTCTTTGCAATGGGGACAAT
GACTGTGGAGACCAGTCAGATGAAGCAAAGTGTAGAAGGATTTATAAAAAATGTCAGCATGAAATGGAC
CAATACTGGGGAAATTGGCAGTCTGGCCAGTGGGATAAATTTGTTCAAAACAGTTTTGAGGGCCAGTT
CTTGATCACAGGTATTATGCAGGTGGATGCTCCCCGATTACATCCTGAACACGAGGTTTAGGAAGCCC
TACAATGTGAAAGCTACACGCCACAGACCAAGGCAAATACGAATTCATATAAAAGAGTATGAATCA
TACTCAGATTTTGAACGCAATGTCACAGAGAAAATGGCAAGCAAGTCTGGTTTCAGTTTTGGTTTTAAA
ATACCTGGAATATTTGAACCTGGCATCAGTAGTCAAAGTATCGAGGCAAACACTATATTAGGAGAACC
AAACGATTCTCTCACTAAAAGCGTATTTCTGCATGCACGCTCTGACCTTGAAGTAGCACATTACAAG
CTGAAACCCAGAAGCCTCATGCTCCATTACGAGTTCCTTCAGAGAGTTAAGCGGCTGCCCTGGAGTAC
AGCTACGGGGAATACAGAGATCTTCCCGTATTTGGGACCCACTACATCACAGAGGCTGTGCTTGGG
GGCATTATGAATACACCCTCGTTATGAACAAAGAGGCCATGGAGAGAGGAGATTACTCTTAACAAC
GTCCATGCCTGTGCCAAAAATGATTTTAAAATTTGGTGGTGCCATTGAAGAGGTCTACGTCAGTCTGGGT
GTGCTGTAGGCAAAATGCAGAGGTATTCTGAATGAAATAAAGACAGAAACAAGAGGGACACCATGGTG
GAGGACTTGGTGGTCTGGTACGAGGAGGGCAAGTGAACATCACACCCTGGCATACCAGGAGCTG
CCGACGGCGGACCTGATGCAGGAGTGGGAGACGCTGTGCAGTACAACCCAGCCATCAAAGTTAAG
GTGGAGCCTCTGTATGAACTAGTGACAGCCACAGATTTTGCCTATTCAGCACAGTGAGGCAGAACATG
AAGCAGGCACTGGAGGATTCCAGAAGGAAGTTAGTTCCTGCCACTGTGCTCCCTGCCAAGGAAATGGA
GTCCCTGTCTGAAAGGATCACGCTGTGACTGCATCTGCTCTGTTGGATCCCAAGGCTAGCCTGTGAG
GTCTCCTATCGGAAGAATACCCCATGATGGGAAGTGAATGCTGGTCAAATTTGGTCTTCATGCTCT
GGAAGACGTAAGACAAGCAAAGGCAGTGAACAATCCACCTCTCAAAATGGGGGTAGCCCTGTTCA
GGCCCTGCTTCAGAAACACTTGACTGCTCC
ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTAAAC
  
```

**Protein Sequence:**

>Peptide sequence encoded by RG238796  
 Blue=ORF Red=Cloning site Green=Tag(s)

```

MRSVDVTLMPIDCELSWSSWTTCDPCQKKRYRYAYLLQPSQFHGEPNCFSDKEVEDCVNRPQRSQVR
CEGFVCAQTGRCVNRLLCNGDNDCGDQSDAANCRRYKCKQHMDQYWGIGSLASGINLFTNSFEGPV
LDHRYAYAGCSPHYILNTRFRKPYNVESYTPQTQKGYEFILKEYESYDFERNVTEKMASKSGFSFGFK
IPGIFELGISSQSDRGKHYIRRTKRFSTKSVFLHARSDLEVAHYKLPKPSLMLHYEFLQVRKRLPLEY
SYGEYRDLFRDFGTHYITEAVLGGIYEYTLVMNKEAMERGDYTLNNVHACAKNDFKIGGAIIEVYVSLG
VSVGKCRGILNEIKDRNRDTRMVEDLVVLVRGGASEHITTLAYQELPTADLMQEWGDAVQYNPAIIVK
VEPLYELVTATDFAYSSTVRQNMKQALEEFQKEVSSCHCAPCQNGVPLVKGSRDCICPVGSQGLACE
VSYRKNTPIDGKWCNSNWSGSGRRKTRQRQCNNPPPQNGGSPCSGPASETLDCS
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
MGYGFYHFGTYPSGYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED
SVIFTDKIIRSNATVEHLHPMGDNDLDGSFTRTFLRDGGYSSVVDSHMHFKSAIHPSILQNGGPMFA
FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV
  
```

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**


**ACCN:** NM\_001278543

**ORF Size:** 1617 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).

**RefSeq:** [NM\\_001278543.1](#), [NP\\_001265472.1](#)

**RefSeq Size:** 2400 bp

**RefSeq ORF:** 1620 bp

**Locus ID:** 732

**Cytogenetics:** 1p32.2

**Protein Families:** Druggable Genome, Secreted Protein, Transmembrane

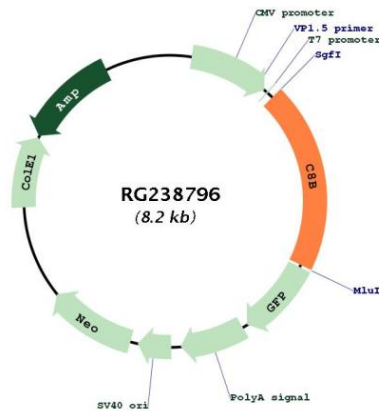
**Protein Pathways:** Complement and coagulation cascades, Prion diseases, Systemic lupus erythematosus

**MW:** 61.8 kDa

**Gene Summary:**

This gene encodes one of the three subunits of the complement component 8 (C8) protein. C8 is composed of equimolar amounts of alpha, beta and gamma subunits, which are encoded by three separate genes. C8 is one component of the membrane attack complex, which mediates cell lysis, and it initiates membrane penetration of the complex. This protein mediates the interaction of C8 with the C5b-7 membrane attack complex precursor. In humans deficiency of this protein is associated with increased risk of meningococcal infections. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jun 2013]

**Product images:**



Circular map for RG238796