

## Product datasheet for **RG211878**

### **c Rel (REL) (NM\_002908) Human Tagged ORF Clone**

#### **Product data:**

|                           |  |
|---------------------------|--|
| Product Type:             | Expression Plasmids                            |
| Product Name:             | c Rel (REL) (NM_002908) Human Tagged ORF Clone |
| Tag:                      | TurboGFP                                       |
| Symbol:                   | c Rel  |
| Synonyms:                 | C-Rel; HIVEN86A                                |
| Mammalian Cell Selection: | Neomycin                                       |
| Vector:                   | pCMV6-AC-GFP (PS100010)                        |
| E. coli Selection:        | Ampicillin (100 ug/mL)                         |



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**ORF Nucleotide Sequence:**

>RG211878 representing NM\_002908  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCCCGCATCGCC

ATGGCCTCCGGTGCATATAACCCGTATATAGAGATAATTGAACAACCCAGGCAGAGGGGAATGCGTTTTA  
 GATACAAATGTGAAGGGGATCAGCAGGCAGCATTCCAGGGGAGCACAGCACAGACAACAACCGAACATA  
 CCCTTCTATCCAGATTATGAACTATTATGAAAAAGAAAAGTGAGAATTACATTAGTAACAAGAATGAC  
 CCATATAAACCTCATCTCATGATTTAGTTGAAAAAGACTGCAGAGACGGCTACTATGAAGCAGAATTTG  
 GACAAGAACGCAGACCTTTGTTTTCCAAAATTTGGGTATTCGATGTGTGAAGAAAAAGAAGTAAAGA  
 AGCTATTATTACAAGAATAAAGGCAGGAATCAATCCATTCAATGTCCCTGAAAAACAGCTGAATGATATT  
 GAAGATTGTGACCTCAATGTGGTGAAGACTGTGTTTTCAAGTTTTCTCCCTGATGAACATGGTAATTTGA  
 CGACTGCTTTCCTCCTGTTGTCTGAACCAATTTATGACAACCGTGTCCAAACTGCAGAATTAAG  
 GATTTGTCGTGTAACAAGAATTGTGGAAGTGTGAGAGGAGATGAAATATTTCTACTTTGTGACAAA  
 GTTCAGAAAGATGACATAGAAGTTCGTTTTGTGTTGAACGATTGGGAAGCAAAAGGCATCTTTTCACAAG  
 CTGATGTACACCGTCAAGTAGCCATTGTTTTCAAACTCCACCATTGCAAAGCTATCACAGAACCCGT  
 AACAGTAAAAATGCAGTTGCGGAGACCTTCTGACCAGGAAGTTAGTGAATCTATGGATTTAGATATCTG  
 CCAGATGAAAAAGATACTTACGGCAATAAAGCAAAAGAAAAGACAACCTCTGCTTTCCAGAACTGT  
 GCCAGGATCACGTAGAAACAGGGTTTCGCCATGTTGACCAGGATGGTCTTGAACCTCTGACATCAGGTGA  
 TCCACCCACCTTGGCCTCCAAAGTGTGGGATTACAGTTAATTTCTGAGAGACCAAGACCTGGTCTC  
 CTCGGTTCAATTGGAGAAGGAAGATACTCAAAAAAGAACAACTTGTCTCATGATGCAGTTGTGA  
 GAGAAATGCCTACAGGGTTTCAAGTCAAGCAGAATCTACTATCCCTCACCTGGGCCCATCTCAAGTGG  
 ATTTGTCACATCATGCCTCAATGGCACCTCTGCCTTCTTCAAGCTGGTATCAGTGGCCACCCACCCCA  
 CGCTCAGGCAATACAAACCCACTGAGTAGTTTTTCAACAAGGACACTTCTTCTAATTCGAAGGTATCC  
 CACCATTCTGAGAATACCTGTTGGGAATGATTTAAATGCTTCTAATGCTTGCATTTACAACAATGCCGA  
 TGACATAGTCGGAATGGAAGCGTCATCCATGCCATCAGCAGATTTATATGGTATTTCTGATCCCAACATG  
 CTGTCTAATTGTTCTGTGAATATGATGACAACCAGCAGTACAGCATGGGAGAGACTGATAATCCAAGAC  
 TTCTGAGCATGAATCTTAAAACCCCTCATGTAATTCAGTGTAGACCAAGAGACTTGAGACAGCTCCA  
 TCAGATGTCTCTCCAGTATGTCAGCAGGCGCAATTCAACTACTGTTTTTGTTCACAATCAGAT  
 GCATTTGAGGGATCTGACTTCAGTTGTGCAGATAACAGCATGATAAATGAGTCGGGACCATCAAACAGTA  
 CTAAATCAAACAGTCATGGTTTTGTTCAAGATAGTCAGTATTCAGGTATTGGCAGTATGCAAATGAGCA  
 ATTGAGTGACTCCTTTCATATGAATTTTTCAAGTA

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

**Protein Sequence:**

>RG211878 representing NM\_002908  
 Red=Cloning site Green=Tags(s)

MASGAYNPYIEIIEQPRQRGMFRYKCEGRSAGSIPGEHSTDNNRTYPSIQIMNYYGKGVKVRITLVTKND  
 PYKPHPHDLVGKDCRDGYEAEFGQERRPLFFQNLGIRCVKKEVKEAIIIRIKAGINPFNVPEKQLNDI  
 EDCDLNVVRLCFQVFLPDEHGNLTALPPVVSNIYDNRAPNTAELRICRVNKNCGSVRGDEIFLLCDK  
 VQKDDIEVRFVLNDWEAKGIFSQADVHRQVAIVFKTPPYCKAITEPVTVMQLRRPSDQEVSESMDFRYL  
 PDEKDTYGNKAKKQKTTLLFQKLCQDHVETGFRHVDQDGLELLTSGDPPTLASQSAGITVNFPERPRPGL  
 LGSIGEGRYFKKEPNLFSHDAVVREMPGTGVSSQAESYYPSPGPISGLSHHASMPLPSSSWSSVAHPTP  
 RSGNTNPLSSFSTRTPNSQGIPIFRLIPVGNLNASNACIYNNADDIVGMEASSMPSADLYGISDPNM  
 LSNCSVMMTTSSDSMGETDNPRLLSMNLNENPSCNSVLDPRDLRQLHQMSSSMSAGANSNTTVFVSQSD  
 AFEQSDFSCADNSMINESGPNSTNPNSHGFVQDSQYSIGISMQNEQLSDSFPYEFFQV

TRTRPLE – GFP Tag – V

**Restriction Sites:**

Sgfl-MluI

Cloning Scheme:



ACCN: NM\_002908

ORF Size: 1857 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:
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\\_002908.4](#)

RefSeq Size: 2592 bp

RefSeq ORF: 1860 bp

Locus ID: 5966

UniProt ID: [Q04864](#)

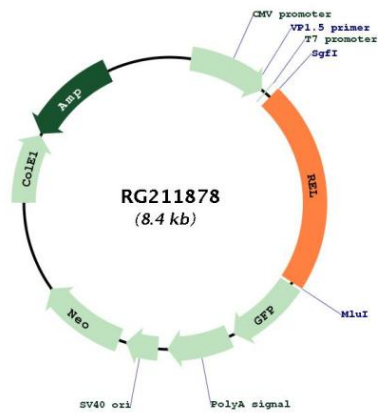
**Cytogenetics:** 2p16.1

**Domains:** RHD, IPT

**Protein Families:** Druggable Genome, Transcription Factors

**Gene Summary:** This gene encodes a protein that belongs to the Rel homology domain/immunoglobulin-like fold, plexin, transcription factor (RHD/IPT) family. Members of this family regulate genes involved in apoptosis, inflammation, the immune response, and oncogenic processes. This proto-oncogene plays a role in the survival and proliferation of B lymphocytes. Mutation or amplification of this gene is associated with B-cell lymphomas, including Hodgkin's lymphoma. Single nucleotide polymorphisms in this gene are associated with susceptibility to ulcerative colitis and rheumatoid arthritis. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Apr 2014]

**Product images:**



Circular map for RG211878