

## Product datasheet for **RG207412**

### **C8orf34 (NM\_052958) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	C8orf34 (NM_052958) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	C8orf34
Synonyms:	VEST-1; VEST1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG207412 representing NM\_052958  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGAGTTCCTCCCCTCGCCTCGGAGTTGTCTGAGTTGGCGGCGCTGCGCCCAGGCTCCGGCTCTCAGCGC  
 CCCACGCGCGCTGGCTCCCGGGCTGCCACCCACGCCCGCGCCGGGGCCGAGCCAGCCACGCAGGGCA  
 GCCGAGGCTCCGAGCTCCTGTCCCGGCCCACTCCGGGTAAGGAGGGTTGTCCCCAGCGGAGGCGCA  
 CAGCCGCGGTTCTCCCTGCACTCTCTTCGCGGTCCCCTCTGTTCCCATGGCGTCTCATCCGAAACCC  
 GGATCCAGGTTACCTGGAGAAGAACAAGATCGGTCCCCTGTTTGAGGAATTAATGACCAAGTTAATAAC  
 TGAGACACCTGACCAGCAATCCATTTCTCATTGACCATCTTCAGTCTAAACAAGGGAACCGTGGACAA  
 CTTCAAAGAACTTGTCTGGATCTGCAGCTCTATGGGCAGAAAGTAAAAATCAGAATCCAAAGGAACAA  
 GAAGGGATTTAGAAGCTATGATAAACCTTGGCAATTAATGCAAAGAAGCCTAAAAATCAAAAAGTGA  
 CCTTGCTGTGTCTAATATTTCTCCACCATACCCGACTCCAAATCATTGCCAAGTCAAGTACAGCATCCA  
 AAGTGGAACTGGAGGACTAAACCACAAAGCCGTGATTTTGATGAATTGAATCACATCCTTCAGGAGAGCA  
 AGAAGCTGGGAAAGCCCTTGAGAATCTCTCTCGAAGTATTGCAATTTTCAGATGAACTCGATAAGGAAAC  
 AGTGACATTTAATTTCTTCTCTTCTGAGGCCCGTGTGATTGGAGAATGGATTGGTAGAGAAGAAAATGAT  
 GCTGATCCCTAGCTGCTGAAATGCTACAGCCTCCAATCCAAGAAGCAAAAATGACCAATGGGAAAGTG  
 AAGATAGTGGCTTAGTCTGCAGGAAGCTTAAGATGGAGCCTAAGAACAAGGATTAACACAGCAGCA  
 ACAGCAACATAAGAACTCCTGGCCGAATGCTCTCTCAAGATTCTTTGAGTCCATCCACAGCCCTACC  
 CCATCTGTAACAGAAGAAGATATTGATAATGAAGATGCAATGGAATTGCTGGAGGATCTTAATGATT  
 TAAGAATGGAGGAGTAACAACCCTGGTACCTTCTGGGAGCAAAATTAACCAAGGCCGCTACTTACC  
 TGCTGAGCCTCAGGCCAAGGTCACACTGAACATCTGTTCAAGGTGTGCCAGGCTTCAAGGAGACAACCTG  
 GAAGAAAGGACAGAAGAGTCACTACCAATACTCCATTCTCCAGATGAAAAATCCAGATTCATTGATT  
 CCTTGCCTGGGACTGAAGAAGCACTAATGGAGGAGGTGACGAATTTGAGAAAGCATCTAACTAACAGG  
 ACCTGGAGAAGCCTCCAGTGGAGTAGGACACTCACTGAAAACTACATGGAGAAGATGAATCCTTAAAG  
 CAATTGCAGGTAGTTCATCAACCATGGATCTTGCCAAGTGACACAGAAAGTGAAGGAGTGGAGCAGAAC  
 AAGAGAAACGTTCCGCTGATCTTCTTCTTTCGCTTCCATGCTCTTCTGCTACGCTGGTCTACTCTGG  
 TTTG

**ACGCGTACGCGGCCGCTCGAG** – GFP Tag – GTTTAA

**Protein Sequence:**

>RG207412 representing NM\_052958  
 Red=Cloning site Green=Tags(s)

MSSPLASELSELAALRPGFRLSAPHARVAPRAATHARGRGRASHAGQPRLRSSCPGSPGKRRVPSGGA  
 QPRVLPALSSRSHLFPMAHPQTRIQAYLEKNKIGPLFEELMTKLITETPDQIPFLIDHLQSKQGNRQ  
 LQRTLSGSAALWAESEKSESKGTRRDFRSYDKPWQLNAKKPKKSKSDLAVSNI SPPSPDSKSLPRVSEHP  
 KWNWRTKQSRDFDELNHILQESKKGKALENLSRSIAISDELDKETVTFNSSLLRPRVIGEWIGREEND  
 ADPLAAEMLQPPIPRSKNDQWSEDSGSSPAGSLKMEPKNKGLKQQQQHKKLLAAMLSDQSFESIHSPT  
 PSVTEEDIDNEDDAMELLEDLNDLRMEGVTTLPVSGSKFNQGRPTYPAEPQAKVTLNICSRCARLQGDNL  
 EERTEESLPILHSPDEKIPDSFDSLPGTEEALMEEGDEFKASKLTGPGEASSGVGHSKKNYMEDES  
 LKQLQVVHPWILPSDTESEGVEAEQEKRSADLLLCVPCSSCPTLVYSGL

**TRTRPLE** – GFP Tag – V

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**


**ACCN:** NM\_052958

**ORF Size:** 1614 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\\_052958.4](#)

**RefSeq Size:** 2701 bp

**RefSeq ORF:** 1617 bp

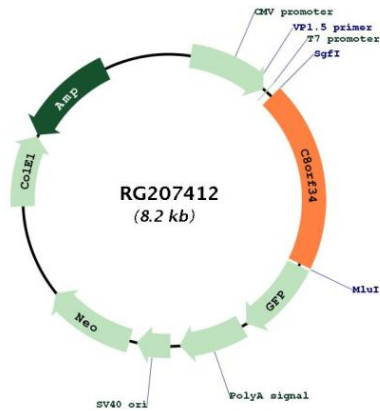
**Locus ID:** 116328

**UniProt ID:** [Q49A92](#)

**Cytogenetics:** 8q13.2

**Gene Summary:** This gene encodes a protein that is related to the cyclic AMP dependent protein kinase regulators. Naturally occurring mutations in this gene are associated with an increased risk for severe toxicities, such as diarrhea and neutropenia, in patients undergoing chemotherapeutic treatment. [provided by RefSeq, Mar 2017]

**Product images:**



Circular map for RG207412