

## Product datasheet for **RG201546**

### Vimentin (VIM) (NM\_003380) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Vimentin (VIM) (NM_003380) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Vimentin
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG201546 representing NM_003380 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGTCCACCAGGTCCGTGTCTCTCGTCTCTACCGCAGGATGTTTCGGCGGCCCGGGCACCAGCGAGCCGGC  
CGAGCTCCAGCCGGAGCTACGTGACTACGTCCACCCGCACCTACAGCCTGGGCAGCGCGCTGCGCCCCAG  
CACCAGCCGCAGCCTCTACGCCTCGTCCCCGGGCGGCGTGTATGCCACCGCCTCTCTGCCGTGCGCCTG  
CGGAGCAGCGTGCCCGGGGTGCGGCTCTGCAGGACTCGGTGGACTTCTCGCTGGCCGACGCCATCAACA  
CCGAGTTCAAGAACACCCCGCACCAACGAGAAGGTGGAGCTGCAGGAGCTGAATGACCGCTTCGCCAACTA  
CATCGACAAGGTGCGCTTCTCGAGCAGCAGAATAAGATCCTGCTGGCCGAGCTCGAGCAGCTCAAGGGC  
CAAGGCAAGTCGCGCTGGGGGACCTCTACGAGGAGGAGATGCGGGAGCTGCGCCGGCAGGTGGACCAGC  
TAACCAACGACAAAGCCCGCTCGAGGTGGAGCGGACAACTGGCCGAGGACATCATGCGCCTCCGGGA  
GAAATTGCAGGAGGAGATGCTTCAGAGAGAGGAAGCCGAAAACCCCTGCAATCTTTCAGACAGGATGTT  
GACAATGCGTCTCTGGCACGTCTTGACCTTGAACGCAAAGTGGAATCTTTCGCAAGAAGAGATTGCCTTTT  
TGAAGAACTCCACGAAGAGGAAATCCAGGAGCTGCAGGCTCAGATTGAGAACAGCATGTCCAAATCGA  
TGTGGATGTTTCAAGCCTGACCTCACGGCTGCCCTGCGTGACGTACGTACGCAATATGAAAGTGTGGCT  
GCCAAGAACCTGCAGGAGGCAGAAGAATGTTACAATCCAAGTTTGTGACCTCTCTGAGGCTGCCAAC  
GGAACAATGACGCCCTGCGCCAGGCAAAGCAGGAGTCCACTGAGTACCGAGACAGGTGCAGTCCCTCAC  
CTGTGAAGTGGATGCCCTTAAAGGAACCAATGAGTCCCTGGAACGCCAGATGCGTGAAATGGAAGAGAAC  
TTTGCCGTTGAAGCTGCTAACTACCAAGACACTATTGGCCGCTGCAGGATGAGATTGAGAAATGAAGG  
AGGAAATGGCTCGTCACCTTCGTGAATACCAAGACCTGCTCAATGTTAAGATGGCCCTTGACATTGAGAT  
TGCCACCTACAGGAAGCTGCTGGAAGGCGAGGAGAGCAGGATTTCTCGCTCTTCCAACTTTTCTCC  
CTGAACCTGAGGGAACTAATCTGGATTCACTCCCTCTGGTTGATACCCACTCAAAAAGGACACTTCTGA  
TTAAGACGGTTGAACTAGAGATGGACAGGTTATCAACGAACTTCTCAGCATCACGATGACCTTGAA

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA



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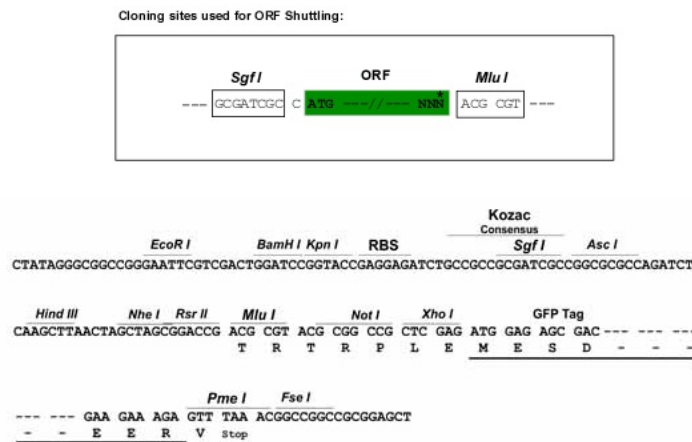
**Protein Sequence:** >RG201546 representing NM\_003380  
 Red=Cloning site Green=Tags(s)

MSTRSVSSSSYRRMFGPGTASRPSSRSYVTTSTRTYSLGSALRPSTSRSLYASSPGGVYATRSSAVRL  
 RSSVPGVRLQLQDSVDFSLADAINTEFKNTRTNEKVELQELNDRFANYIDKVRFLQEQNKILLAELEQLKG  
 QGKSRLGDLYEEEMRELRRQVDQLTNDKARVEVERDNLAEIMRLREKLQEEMLQREEAENTLQSFRODV  
 DNASLARLDLERKVESLQEEIAFLKKLHEEEIQELQAQIQEQHVQIDVDVSKPDLTAALRDVRRQYVESVA  
 AKNLQEAEEWYKSKFADLSEAANRNNDALRQAKQESTERYRRQVQSLTCEVDALKGTNESLERQMRMEEN  
 FAVEAANYQDTIGRLQDEIQNMKEEMARHLREYQDLLNVKMALDIEIATYRKLLEGEESRISLPLPNFSS  
 LNLRETNLDSLPLVDTHSKRTLLIKTVETRDGQVINETSQHDDLE

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_003380

**ORF Size:** 1398 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\\_003380.5](#)

**RefSeq Size:** 1847 bp

**RefSeq ORF:** 1401 bp

**Locus ID:** 7431

**UniProt ID:** [P08670](#)

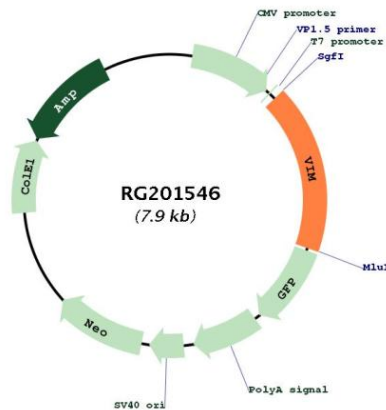
**Cytogenetics:** 10p13

**Domains:** filament, filament\_head

**Protein Families:** ES Cell Differentiation/IPS

**Gene Summary:** This gene encodes a type III intermediate filament protein. Intermediate filaments, along with microtubules and actin microfilaments, make up the cytoskeleton. The encoded protein is responsible for maintaining cell shape and integrity of the cytoplasm, and stabilizing cytoskeletal interactions. This protein is involved in neuritogenesis and cholesterol transport and functions as an organizer of a number of other critical proteins involved in cell attachment, migration, and signaling. Bacterial and viral pathogens have been shown to attach to this protein on the host cell surface. Mutations in this gene are associated with congenital cataracts in human patients. [provided by RefSeq, Aug 2017]

### Product images:



Circular map for RG201546