

## Product datasheet for **RG206549**

### VEGFD (NM\_004469) Human Tagged ORF Clone

#### Product data:

|                           |   |
|---------------------------|---|
| Product Type:             | Expression Plasmids   |
| Product Name:             | VEGFD (NM_004469) Human Tagged ORF Clone                                    |
| Tag:                      | TurboGFP  |
| Symbol:                   | VEGFD   |
| Synonyms:                 | FIGF; VEGF-D  |
| Mammalian Cell Selection: | Neomycin  |
| Vector:                   | pCMV6-AC-GFP (PS100010)   |
| E. coli Selection:        | Ampicillin (100 ug/mL)  |
| ORF Nucleotide Sequence:  | >RG206549 representing NM_004469<br>Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGC**

ATGTACAGAGAGTGGGTAGTGGTGAATGTTTTTCATGATGTTGTACGTCCAGCTGGTGCAGGGCTCCAGTA  
ATGAACATGGACCACTGAAGCGATCATCTCAGTCCACATTGGAACGATCTGAACAGCAGATCAGGGCTGC  
TTCTAGTTTGGAGGAAGTCTCGAATTACTCACTCTGAGGACTGGAAGCTGTGGAGATGCAGGCTGAGG  
CTCAAAAGTTTTACCAGTATGGACTCTCGCTCAGCATCCCATCGGTCCACTAGGTTTGGGCAACTTTCT  
ATGACATTGAAACACTAAAAGTTATAGATGAAGAATGGCAAAGAACTCAGTGCAGCCCTAGAGAAACGTG  
CGTGGAGGTGGCCAGTGAAGTGGGAAGAGTACCAACACATTCTCAAGCCCCCTTGTGTGAACGTGTTT  
CGATGTGGTGGCTGTTGCAATGAAGAGAGCCTTATCTGTATGAACACCAGCACCTCGTACATTTCCAAAC  
AGCTCTTTGAGATATCAGTGCCTTTGACATCAGTACCTGAATTAGTGCCTGTTAAAGTTGCCAATCATAC  
AGGTTGTAAGTGCTTGCCAACAGCCCCCGCCATCCATACTCAATTATCAGAAGATCCATCCAGATCCCT  
GAAGAAGATCGCTGTTCCCATTCGAAGAACTCTGTCTATTGACATGCTATGGGATAGCAACAAATGTA  
AATGTGTTTTGCAGGAGGAAAATCCACTTGCTGGAACAGAAGACCACTCTCATCTCCAGGAACAGCTCT  
CTGTGGCCACACATGATGTTTGACGAAGATCGTTGCGAGTGTGTCTGTAAAACACCATGTCCCAAGAT  
CTAATCCAGCACCCCAAACTGCAGTTGCTTTGAGTGCAAAGAAAGTCTGGAGACCTGCTGCCAGAAGC  
ACAAGCTATTTACCCAGACACCTGCAGCTGTGAGGACAGATGCCCTTTTCATACCAGACCATGTGCAAG  
TGGCAAAACAGCATGTGCAAAGCATTGCCGCTTTCCAAAGGAGAAAAGGGCTGCCAGGGGCCCCACAGC  
CGAAAGAATCCT

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG206549 representing NM\_004469  
 Red=Cloning site Green=Tags(s)

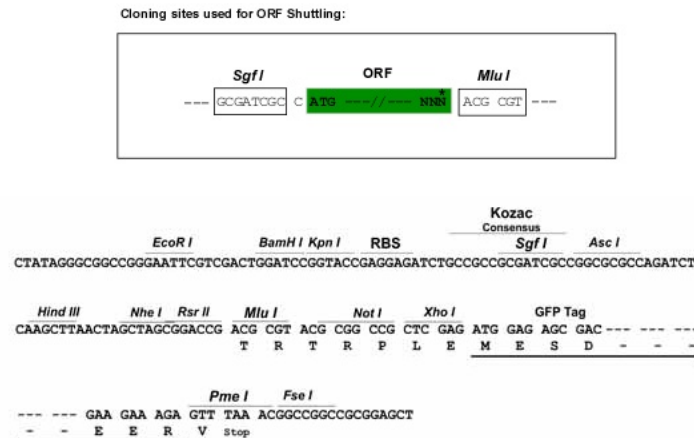
MYREWVVVFMMLYVQLVQGSSNEHGPVKRSSQSTLERSEQQIRAASSLEELLRITHSEDWKLWRCRLR  
 LKSFTSMDSRSASHRSTRFAATFYDIETLKVIDEEWQRTQCSPRETCVEASELGKSTNTFFKPPCVNVF  
 RCGGCCNEESLICMNTSTSYISKQLFEISVPLTSVPELVPVKVANHTGCKCLPTAPRHPYSIIRRSIQIP  
 EEDRCSHKKLCPIDMLWDSNKCKCVLQEENPLAGTEDHSHLQEPALCGPHMMFDEDRCECVCKTPCPKD  
 LIQHPKNCSCFECKESLETCCQKHKLFPDTCSCEDRCPFHTRPCASGKTACAKHCRFPKEKRAAQGPHS  
 RKNP

TRTRPLE – GFP Tag – V

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_004469

**ORF Size:** 1062 bp

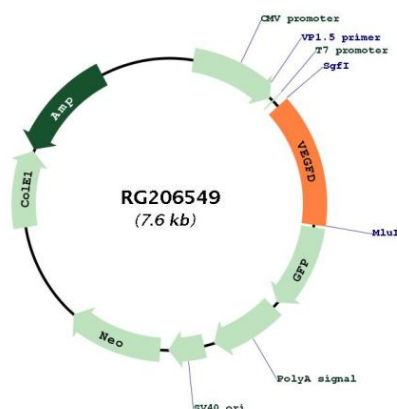
**OTI Disclaimer:** The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone 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).

|                               |   |
|-------------------------------|---|
| <b>Reconstitution Method:</b> | <ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>   |
| <b>RefSeq:</b>                | <u><a href="#">NM_004469.5</a></u>  |
| <b>RefSeq Size:</b>           | 2128 bp   |
| <b>RefSeq ORF:</b>            | 1065 bp   |
| <b>Locus ID:</b>              | 2277  |
| <b>UniProt ID:</b>            | <u><a href="#">O43915</a></u>   |
| <b>Cytogenetics:</b>          | Xp22.2  |
| <b>Protein Families:</b>      | Druggable Genome, Secreted Protein  |
| <b>Protein Pathways:</b>      | Bladder cancer, Cytokine-cytokine receptor interaction, Focal adhesion, mTOR signaling pathway, Pancreatic cancer, Pathways in cancer, Renal cell carcinoma   |
| <b>Gene Summary:</b>          | <p>The protein encoded by this gene is a member of the platelet-derived growth factor/vascular endothelial growth factor (PDGF/VEGF) family and is active in angiogenesis, lymphangiogenesis, and endothelial cell growth. This secreted protein undergoes a complex proteolytic maturation, generating multiple processed forms which bind and activate VEGFR-2 and VEGFR-3 receptors. This protein is structurally and functionally similar to vascular endothelial growth factor C. Read-through transcription has been observed between this locus and the upstream PIR (GeneID 8544) locus. [provided by RefSeq, Feb 2011]</p> |

## Product images:



Circular map for RG206549