

Product datasheet for **RC209477**

VGF (NM_003378) Human Tagged ORF Clone

Product data:

| | |
|---------------------------|--|
| Product Type: | Expression Plasmids |
| Product Name: | VGF (NM_003378) Human Tagged ORF Clone |
| Tag: | Myc-DDK |
| Symbol: | VGF |
| Synonyms: | SCG7; SgVII |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |



[View online »](#)

ORF Nucleotide Sequence:

>RC209477 representing NM_003378
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGAAAGCCCTCAGATTGTCGGCTTCCGCCTTCTCTGCCTTCTGCTGATCAACGGTTAGGGGACAC
 CCCTGGTCGCCCTGAGGCGCAGCCTCCTCTCAGCTCTGAGCATAAAGAGCCGGTAGCCGGGACGC
 AGTGCCCGGGCCAAAGGATGGCAGCGCCCCAGAGTCCGAGGCGCTCGGAATTCGAGCCGACGAGCAG
 GGAGAGCTTTTCCAGGGCGTGGATCCCCGGGCGCTGGCCGCGGTGCTGCTGACGCACTCGACCGTCCC
 CCTACCCCCGGCACCAAGCGGCTCCCAGCAGGGGCGGAGGAAGAAGCAGCTGAAGCTCTGCTGACCGA
 GACCGTGCAGCAGCACACAGCCTCCCGGCGCCGAGAGCCCGAGCCCGCGCTCCGCTCGCCCT
 CAGACTCCGGAGAATGGGCCGAGGCGAGCGATCCCTCCGAGGAGCTCGAGGCGCTAGCGTCCCTGCTCC
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 CCTAGGCGAGGCATTGGCACCCCTGTCCAAGGCGTACCAAGGCGTGGCCGCCCGTTCCCAAGGCGCGC
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 CGCCTCGGACCTGCTGCTCCAGTATTTGCTGCAGGGCGGGGCCCGGCAGCGCGCCTCGGGGTGGGGG
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 CTCCCGCACGAGACGAGCTGCCGACTGGAACGAGGTGCTCCCGCCTGGGATCGGGAGGAGGACGAGGT
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 GCGCGCGCAGGAGGAGGCGGAGGCGGAGGAGCGCGGCTGCAGGAGCAGGAGGAGCTGGAGAATTACAT
 CGAGCACGTGCTGCTCCGGCGCCCG

AG**CGGACCG**ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
 TGGATTACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC209477 representing NM_003378
 Red=Cloning site Green=Tags(s)

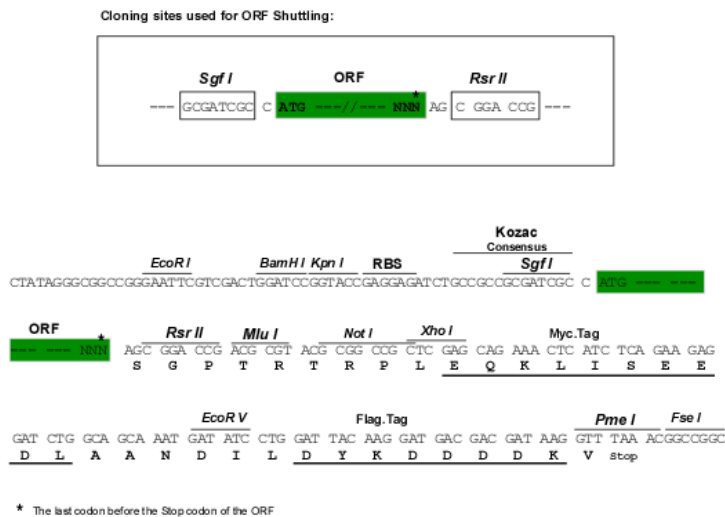
MKALRLSASALFCLLLINGLAAPPGRPEAQPPPLSSEHKPEVAGDAVPGPKDGSAPVIRGARNSEPQDE
 GELFQGVDPRALAAVLLQALDRPASPPAPSGSQGPEEEAAEALLTETVRSQTHSLPAPESPEPAAPPRP
 QTPENGPEASDPSELEALASLLQELRDFSPSSAKRQQTAAAE TETRTHL TRVNLES PGPVWRASW
 GEFQARVPERAPLPPPAPSQFQARMPDSGPLPE THKFGEVSSPKTHLGEALAPLSKAYQVAAPFPKAR
 RPE SALLGGSEAGERLLQQGLAQVEAGRRQAEATRQAAAQEERLADLASDLLLQYLLQGGARQRLGGRG
 LQEAAEERESAREEEAEQERRGGEERVGEEDEEAAEAEAEAEAEERARQNALLFAEEEDGEAGAEDKRS
 QEETPGHRRKEAEGTEEGEEEDDEEMDPTIDSLIELSTKLHLPADDVVSIIIEVEEKRRKKNAPPEP
 VPPRAAPAPTHVRSPPPPAPAPARDEL PDWNEVLPWDREDEEVYPPGYPHPFNYIRPRTLQPPSA
 LRRRHHHALPPSRHYPGREARQAQEAEEERLQEQEELNYIEHVLLRRP

SGP**TRTRRLEQKLI**SEEDLAANDILDYKDDDDK**V**

Chromatograms: https://cdn.origene.com/chromatograms/mg3257_c05.zip

Restriction Sites: SgfI-RsrII

Cloning Scheme:



ACCN: NM_003378

ORF Size: 1845 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_003378.4](#)

RefSeq Size: 2545 bp

RefSeq ORF: 1848 bp

Locus ID: 7425

UniProt ID: [O15240](#)

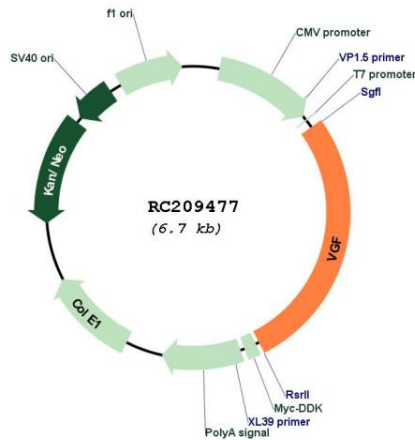
Cytogenetics: 7q22.1

Protein Families: Secreted Protein

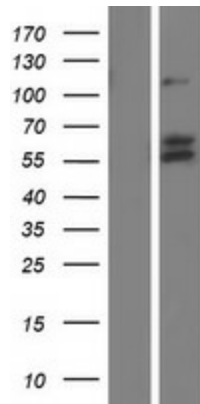
MW: 67.26 kDa

Gene Summary: This gene is specifically expressed in a subpopulation of neuroendocrine cells, and is upregulated by nerve growth factor. The structural organization of this gene is similar to that of the rat gene, and both the translated and the untranslated regions show a high degree of sequence similarity to the rat gene. The encoded secretory protein also shares similarities with the secretogranin/chromogranin family, however, its exact function is not known. [provided by RefSeq, Jul 2008]

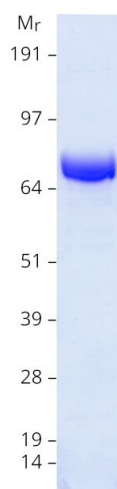
Product images:



Circular map for RC209477



Western blot validation of overexpression lysate (Cat# [LY418733]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC209477 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified VGF protein (Cat# [TP309477]). The protein was produced from HEK293T cells transfected with VGF cDNA clone (Cat# RC209477) using MegaTran 2.0 (Cat# [TT210002]).