

Product datasheet for **MR219447**

Vgf (NM_001039385) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Vgf (NM_001039385) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Vgf
Synonyms:	Gm1052
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>MR219447 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAAACCTTCACGTTGCCGGCATCCGTCCTTCTGCTTCTCTACTGATCCAGGGTTGGGAGCAG
 CGCCCCCGGGCGCCCGATGTTTTCTCCTCCCTCAGCTCTGAGCATAATGGGCAGGTAGCTGAGGA
 CGCAGTGTCCCGGCCAAAGGATGACGGGTACCAGAGGTCGAGCTGCTCGGAATCCCGAGCCTCAGGAC
 CAGGGAGAGCTCTCCAGGGCGTGGATCCCGGGCGCTGGCTCGGTACTGTTGCAGGCACTGGACCGTC
 CGGCTCGCCCCGTCGGTCCCGGAGGTTCCAGCAGGGAACCCGAAGAAGCAGCAGAAGCTCTGCT
 GACCGAGTCCGTGCGCAGTCAGACCCATAGCCTCCCGCACCAGAAATCCAAGCGCCCGCTGTGGCCCC
 CCTCGCCCTCAGACTCAGGACCGCATCCCGAGGAGGACGACCGCTCAGAAGAGCTGGAGGCGTAGCAT
 CCTTGCTCCAAGAACTTCGAGATTTTCAGTCCGAGCAATGCTAAGCGCCAACAAGAGACGGCGGCAGCAGA
 GACTGAAACCCGCACGCACACGCTGACCCGAGTCAATCTGAGAGCCCCGGGCCAGAGCGGTGTGGCGC
 GCTTCTGGGGAGAGTTCAGGCGCGCTTCCGGAGCGGCTCCTCTTCCGCCCCCGGTCCCTTCCAAT
 TCCAGGCTCGAATGTCCGAAAGCGCTCCCTTCCCGAAACTCATCAGTTCGGGGAAGGAGTGTCTCCCC
 TAAACACATTTAGGTGAGACTTTGACACCCCTTATCCAAGGCGTATCAAAGTCTAGGTGGCCCTTCCCT
 AAGGTGCGCCGGCTCGAGGGCTCATTCTGGGCGGCTCCGAGGCAGGAGAGCGCTGCTTTCAGCAAGGAT
 TAGTCCAGGTAGAGGCAGGGAGGAGACAGGCGGAGGCCACCCGGCAGGCCGCGGCGCAAGAAGAGCGGCT
 GGCCGATCTCGCTCCGACCTGCTGCTCCAGTATCTGTTGCAGGGCGGAGCCCGGAGCGGATCTCGGG
 GGTCCGAGCTGCAGGAGACGCAGCAAGAGCGGAGAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG
 GAGGTGGTGGGAGGACGATGTGGGGAAAGAGGATGAGGAGGCGGCGGAGGCGGAGGCGGAGGAGGAGG
 GCGGAGAGGGCGCGCAGAACGCACTCCTGTTCCGCGAGGAGGAGGAGGCGGGAAGCCGGAGCCGAGGAC
 AAACGCTCCCAGGAGGAGGCGCCAGGCCATCGGCGGAAGGATGCTGAGGGGCGAGGAGGCGGGGAGG
 AGGATGACGACGACGAGGAGATGGATCCGACAGCATCGATAGTCTCATTGAACTGTCCACCAAACCTCCA
 CCTGCCAGCAGACGATGTGGTACGATCATCGAAGAGGTGGAGGAGAAACGGAAGCGGAAGAAGAAGCC
 CCTCCGAGCCGGTCCCGCTCCAGGGCTGCCAGCCCGACCCATGTCCGCTCTCCGAGCCCCAC
 CTCCGCCCCAGCCGGGATGAGTTGCCGACTGGAACGAAGTCTCCACCTGGGATCGGAGGAGGA
 TGAGGTGTTTCCCGGGGCCATCACCCCTTCCAACTACATTCCGCCGCGGACACTGCAGCCGCC
 GCATCTCCCGCCCGCTCACTTCCATACGCGTTGCCACCTGCGGCCACCATCCGGATCTGGAGGCC
 AGGCCAGGCGCGCAGGAGGAAGCGGACGCGGAGGAGCGCGCTGCAGGAGCAGGAGGAGCTGGAGAA
 TTACATTGAGCACGTGCTGCTGCACCGCCG

AG**CGGACCG**ACGCGTACGCGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
 TGGATTACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

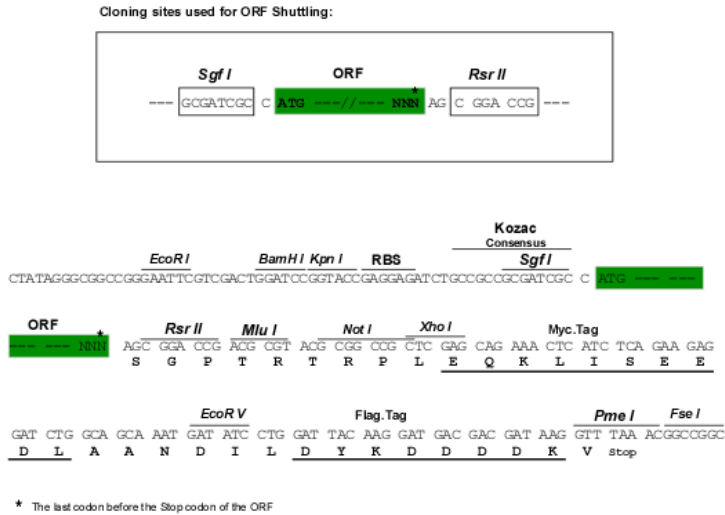
>MR219447 protein sequence
 Red=Cloning site Green=Tags(s)

MKFTFLPASVLCFLLLIQGLGAAPPGRPDVFPPLSSEHNGQVAEDAVSRPKDDGVPEVRAARNPEPQD
 QGELFQGVDPRALASVLLQALDRPASPPSVPGGSQQTPEEAAEALLTESVRSQTHSLPAPEIQAPAVAP
 PRPQTQDRDPEEDDRSELEALASLLQELRDFSPSNAKRQETAAAETETRTHLTRVNLESPGPERVWR
 ASWGEFQARVPERAPLPPPVPSQFQARMSESAPLPETHQFGEVSSPKTHLGETLTPLSKAYQSLGGPFP
 KVRRLGSLGGSEAGERLLQQGLAQVEAGRRQAEATRQAAAQEERLADLASDLLLQYLLQGGARQDLG
 GRELQETQQERENEREEAEQERRGGEDDVGEEDEAAEAEAEAEERARQNALLFAEEDDEGAAGED
 KRSQEEAPGHRKDAEGAEEGGEDDDDEEMDPQTIDSLIELSTKLHLPADDVVSIIIEVEEKRRKKNNA
 PPEVPVPPRAAPATHVRSPQPPPPAPARDELPDWNEVLPPWDREDEVFPPGPHYFPNYPNIRPTLQPP
 ASSRRRHFFHALPPARHHPDLEAQARRAQEEADAERRLQEQEELENYIEHVLLHRP

SGP**TRTRPLEQKLI**SEEDLAANDILDYKDDDDK**V**

Restriction Sites: SgfI-RsrII

Cloning Scheme:



ACCN: NM_001039385

ORF Size: 1854 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_001039385.1](#), [NP_001034474.1](#)

RefSeq Size: 2553 bp

RefSeq ORF: 1854 bp

Locus ID: 381677

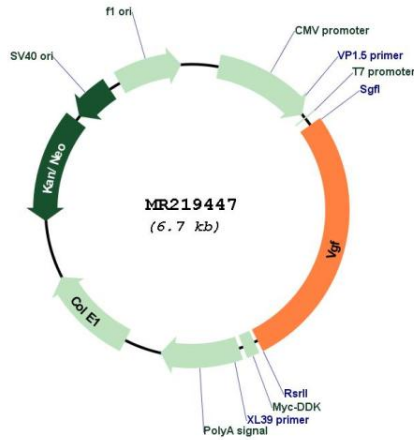
UniProt ID: [Q0VQU4](#)

Cytogenetics: 5 76.13 cM

MW: 68.2 kDa

Gene Summary: Neurosecretory protein VGF: Secreted polyprotein that is packaged and proteolytically processed by prohormone convertases PCSK1 and PCSK2 in a cell-type-specific manner (By similarity). VGF and peptides derived from its processing play many roles in neurogenesis and neuroplasticity associated with learning, memory, depression and chronic pain (PubMed:19863797, PubMed:26180209, PubMed:30504797).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR219447