

Product datasheet for **MC219779**

Vgf (NM_001039385) Mouse Untagged Clone

Product data:

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



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Fully Sequenced ORF: >MC219779 representing NM_001039385
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGAAACCTTCACGTTGCCGGCATCCGTCCTTCTGCTTCTCTACTGATCCAGGGTTGGGAGCAG
 CGCCCCCGGGCGCCCGATGTTTTCTCCTCCCTCAGCTCTGAGCATAATGGGCAGGTAGCTGAGGA
 CGCAGTGTCCCGGCCAAAGGATGACGGGTACCAGAGGTCGAGCTGCTCGGAATCCCGAGCCTCAGGAC
 CAGGGAGAGCTCTCCAGGGCGTGGATCCCGGGCGCTGGCTCGGTACTGTTGCAGGCACTGGACCGTC
 CGGCTCGCCCCGTCGGTCCCGGGAGGTTCCAGCAGGGAACCCGAAGAAGCAGCAGAAGCTCTGCT
 GACCGAGTCCGTGCGCAGTCAGACCCATAGCCTCCCGCACCAAGAAATCCAAGCGCCCGTGTGGCCCC
 CCTCGCCCTCAGACTCAGGACCGCATCCCGAGGAGGACGACCGCTCAGAAGAGCTGGAGGCGTAGCAT
 CCTTGCTCCAAGAACTTCGAGATTTTCAGTCCGAGCAATGCTAAGCGCCAACAAGAGACGGCGGCAGCAGA
 GACTGAAACCCGCACGCACACGCTGACCCGAGTCAATCTGGAGAGCCCCGGGCCAGAGCGGTGTGGCGC
 GCTTCCGAGGAGGTTCCAGGCGCGCTCCGAGCGCGCTCCTCTCCGCCCCCGGTCCCTTCCCAAT
 TCCAGGCTCGAATGTCCGAAAGCGCTCCCTTCCCGAAACTCATCAGTTCGGGGAAGGAGTGTCTCCCC
 TAAACACATTTAGGTGAGACTTTGACACCCCTTATCCAAGGCGTATCAAAGTCTAGGTGGCCCTTCCCT
 AAGGTGCGCCGGCTCGAGGGCTCATTCTGGGCGGCTCCGAGGACAGGAGCGCTGCTTCCAGCAAGGAT
 TAGTCCAGGTAGAGGCAGGGAGGAGACAGGCGGAGGCCACCCGGCAGGCCGCGGCGCAAGAAGAGCGGCT
 GGCCGATCTCGCTCCGACCTGCTGCTCCAGTATCTGTTGCAGGGCGGAGCCCGGAGCGGATCTCGGG
 GGTCCGAGCTGCAGGAGACGCAGCAAGAGCGGGAACGAGAGGGAGGAGGAGGAGGAGGAGGAGGAGGAGG
 GAGGTGGTGGGAGGACGATGTGGGGAAAGAGGATGAGGAGGCGGCGGAGGCGGAGGCGGAGGAGGAGG
 GCGGAGAGGGCGCGGCAGAACGCACTCCTGTTCCGCGAGGAGGAGGAGGCGGGAAGCCGGAGCCGAGGAC
 AAACGCTCCAGGAGGAGGCGCCAGGCCATCGGCGGAAGGATGCTGAGGGGCGAGGAGGCGGGGAGG
 AGGATGACGACGACGAGGAGATGGATCCGACAGCATCGATAGTCTCATTGAACTGTCCACCAAACCTCCA
 CCTGCCAGCAGACGATGTGGTACGATCATCGAAGAGGTGGAGGAGAAACGGAAGCGGAAGAAGAAGCC
 CCTCCGAGCCGGTCCCGCTCCAGGGCTGCCAGCCCGACCCATGTCCGCTCTCCGAGCCCCAC
 CTCCCGCCAGCCGGGATGAGTTGCCGGACTGGAACGAAGTCTCCACCTGGGATCGGAGGAGGA
 TGAGGTGTTCCCGGGGCCCTATCACCCCTCCCAAACACATTCCGCGCGGACACTGCAGCCGCC
 GCATCTCCCGCGCCGTCATTCCATACGCGTTGCCACCTGCGCGCCACCATCCGGATCTGGAGGCC
 AGGCCAGGCGCGCAGGAGGAAGCGGACGCGGAGGAGCGCGCTGCAGGAGCAGGAGGAGCTGGAGAA
 TTACATTGAGCACGTGCTGCTGCACCGCCCG**TGA**

AG**CGGACCG**ACGCGTACGCGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
 TGGATTACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-RsrII
- ACCN:** NM_001039385
- Insert Size:** 1854 bp
- OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
- 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: [Q0VGU4](#)

Cytogenetics: 5 76.13 cM

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]