

Product datasheet for **RC205994**

VG5Q (AGGF1) (NM_018046) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	VG5Q (AGGF1) (NM_018046) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	VG5Q
Synonyms:	GPATC7; GPATCH7; HSU84971; HUS84971; VG5Q
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC205994 representing NM_018046
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCCTCGGAGCGCCGTCGCCCGCGCGCCACCTCCCCGAGCCTGAGCTGGCCC
 AGCTAAGCGGAAGGTGGAGAAGTTGGAACGTGAACTGCGGAGCTGCAAGCGGCAGGTGCGGAGATCGA
 GAAGCTGCTGCATCACACAGAACGGCTGTACCAGAACGCAGAAAGCAACAACCAGGAGCTCCGCACGCAG
 GTGGAAGAAGCTCAGTAAAATACTCCAACGTGGGAGAAATGAAGATAATAAAAAGTCTGATGTAGAAGTAC
 AAACAGAGAACCATGCTCCTTGGTCAATCTCAGATTATTTTTATCAGACGTACTACAATGACGTTAGTCT
 TCCAAATAAAGTGACTGAACTGTCAGATCAACAAGATCAAGCTATCGAACTTCTATTTTGAATTCTAAA
 GACCATTTACAAGTAGAAAATGATGCTTACCCTGGTACCGATAGAACAGAAAATGTTAAATATAGACAAG
 TGGACCATTTGCCTCAAATTCACAGGAGCCAGCATCTGCATTAGCAACAGAAGATACCTCCTTAGAAGG
 CTCATCATTAGCTGAAAGTTTGAGAGCTGCAGCAGAAGCGGCTGTATCACAGACTGGATTTAGTTATGAT
 GAAAATACTGGACTGTATTTGACCACAGCACTGGTTTCTATTATGATTCTGAAAATCAACTCTATTATG
 ATCCTTCCACTGGAAATTTATTACTATTGTGATGTGAAAAGTGGTCGTTATCAGTTTCATTCTCGAGTAGA
 TTTGCAACCTTATCCGACTTCTAGCACAAAACAAAGTAAAGATAAAAAATGAAGAAGAAAAGAAAAGAT
 CCAGATTTCTTCTGCAACAAATGAGGAAAAGGATTTGAACTCAGAGGATCAAAAAGCCTTCAGTGTGAAAC
 ATACAAGCTGCAATGAGGAAGAAAATTTGCAAAATATGAAAAAGAAGGCCAAAATAGGCATTCATCACAA
 AAATAGTCCCCCAAAGTCACTGTTCCAAGTGGAAATACTATAGAGTCTCCTCTTCATGAAAACATC
 TCTAATTCAACATCATTTAAAGATGAGAAAATCATGGAGACTGATAGTGAACCAGAGGAAGGTGAAATTA
 CAGACTCAGACTGAGGATAGTTATGACGAAGCCATTACCAGTGAAGGCAATGTAAGTGCAGAAAGATG
 TGAGGATGAAGATGAAGACAAAATTTGGCCCCATGTATTAGAGTAATTGTCATTAGATCACCTGTGTTG
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 TTCACATTCATCCTGGCAGTGATACCTGTGATGGCTGTGAACGAGGGCAGGTTAGAGCCACCTTCGCCT
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 TGATGCTCCTGCATCTGTTCACTTCTGAAATTAAGTATGATAGCAACAAAGGTCGGAAGTTGTTGGAGAAGATG
 GGTTGGAAGAAAGGAGAGGGCCTGGGGAAGGATGGTGGAGGAATGAAAACGCCGATCCAGCTTCAGCTTC
 GGCGAACACATGCAGGCTTGGGGACAGGCAAAACATCCTCATTGAAAGATGTTACCTTCTCCAAAACAA
 GAACAAAAAAACTGGGACAAAGCACGAGAGCGGTTTACTGAAAACCTCCAGAAAATAAGCCTCAAAAA
 GATGACCCAGGGACCATGCCTTGGGTAAGGGACTTTAGAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC205994 representing NM_018046
Red=Cloning site Green=Tags(s)

MASEAPSPRPPPTSPPELAQLRRKVEKLERELRSCKRQVREIEKLLHHTERLYQNAESNNQELRTO
 VEELSKILQRGRNEDNKKSDVEVQTENHAPWSISDYFYQTYNDVSLPNKVTELSQQDQAIETSILNSK
 DHLQVENDAYPGTDRTENVKYRQVDHFASNSQEPASALATEDTSLEGSSLAESLRAAAEAASQTGF SYD
 ENTGLYFDHSTGFYYDSENQLYDPSTGIYYCDVE SGRYQFHSRVDLQPYPTSSTKQSKDKLKKRKRK
 PDSSATNEEKDLNSEDQKAFSVEHTSCNEEFANMKKKAKIGIHHKNSPPKVTVP TSGNTIESPLHENI
 SNSTSFKDEKIMETDSEPEEGEITDSQTEDSYDEAITSEGNVTAEDSEDEDEDKIWPPIRVIVIRSPVL
 QIGSLFIIITAVNPATIGREKMEHTLRIPVEGVSKFHAIEYFDHDLQSYVLVDQGSQNGTIVNGKQILQP
 KTKCDPYVLEHGDEVKIGETVLSFHIHPGSDTCGCGERQVRAHLRLDKKDESFVGPLSKEEKELEGRK
 ELKKIRVKYGLQNTYEDEKTLKNPKYKDRAGKRREQVSGEGTFQRDDAPASVHSEITDSNKGKRLLEKM
 GWKKGEGLGKDGGMKTP IQLQLRRTHAGLGTGKPSSEFVHLLQNKKNKNDKARERFTENFPETKPKQK
 DDPGTMPPWVKGTLE

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mg4508_a05.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_018046

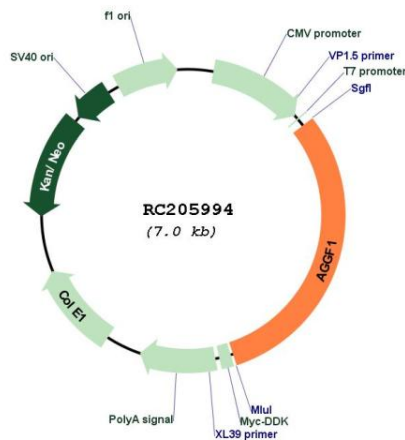
ORF Size: 2142 bp

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:	<ol style="list-style-type: none"> 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_018046.5
RefSeq Size:	4480 bp
RefSeq ORF:	2145 bp
Locus ID:	55109
UniProt ID:	Q8N302
Cytogenetics:	5q13.3
Domains:	FHA, G-patch
Protein Families:	Secreted Protein
MW:	80.8 kDa
Gene Summary:	This gene encodes an angiogenic factor that promotes proliferation of endothelial cells. Mutations in this gene are associated with a susceptibility to Klippel-Trenaunay syndrome. Pseudogenes of this gene are found on chromosomes 3, 4, 10 and 16.[provided by RefSeq, Sep 2010]

Product images:



Circular map for RC205994

