

Product datasheet for **RG219022**

C19orf61 (SMG9) (NM_019108) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	C19orf61
Synonyms:	C19orf61; F17127_1; HBMS
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



ORF Nucleotide Sequence: >RG219022 representing NM_019108
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGGCTGCAATTGATGAGGAAGGAGGGAGAGAGATAGGAGATGAAGTCAATATATTGGTGAAGGAACAGA
 CACAGTTAGGGGTCAAGACTCTCATGAGGTTACTCAAGGAACCAGAGAAAGAACGGGACTCAGACTCAGA
 TTTCTCCCCTCTTCAGCAGACTGAGGGATGCCAGCGAAGAGACAAGCACTTCGGTTCATGCAGAAAAACCC
 CATCATCTCTCAAACCTCCAGCAGAGCGGCCCTCTGGAGAAGCCATCGTTCTCATGAAGCCACGGG
 AGGAGGGGAAGGGGCTGTGGCCGTGACAGGTGCCTCTACCCCTGAGGGCACGCCCCACCAACCCCTGC
 AGCCCTGCGCCACCAAGGGGGAGAAGGAGGGGCAGAGACCCACACAGCCTGTGTACCAGATCCAGAAC
 CGGGGCATGGGCACTGCCGACCCAGCAGCCATGACCCTGTCGTGGGTGAGGCCAACTACTGCCCCAG
 AGCGCATGAAGCACAGCATCAAGTTGGTGGATGACCAGATGAATTGGTGTGACAGTGCCATCGAGTACCT
 GTTGGATCAGACTGATGTGTTGGTGGTGGTGTCTGGGCTCCAGGGGACAGGCAAGTCCATGGTCATG
 TCATTGTTGTGAGCAACACTCCAGAGGAGGACCAGAGGACTTATGTTTTCCGGGCCAGAGCGCTGAAA
 TGAAGGAACGAGGGGGCAACCAGACCAAGTGGCATCGACTTCTTTATTACCAAGAACGGATTGTTTTCT
 GGACACACAGCCCATCTGAGCCCTTCTATCCTAGACCATCTCATCAATATGACCGCAAACCTGCCTCCA
 GAGTACAACCTTCCCCACACTTACGTTGAAATGCAGTCACTCCAGATTGCTGCCTTCTTTTACGGTCT
 GCCATGTGGTGATTGTTGTCCAGGACTGGTTCACAGACCTCAGTCTCTACAGGCTGTGGGACCTGGGGTG
 CAAGTGCAAGAGCAACAGCCACTACCCCCAAACCCCAAGGTTCTGCAGACAGCAGAGATGGTGAAGCCC
 TCCACCCCATCCCCAGCCAGAGTCCAGCAGCTCATCGGGCTCCGATGAAGGCACCGAGTACTACCCCC
 ACCTAGTCTTCTTGAGAACAAGCTCGCCGAGAGGACTTCTGTCTCGGAAGCTGCGGCAGATGCACCT
 GATGATTGACCAGCTCATGGCCCACTCCCACTGCGTTACAAGGGAACCTGTCCATGTTACAATGCAAT
 GTCTTCCCGGGGCTTCCACCTGACTTCTTGAGCTCTGAGGTCAACTATTCTGGTACCCCTTCATGGACA
 GTGAAGCAGAGAGTGAAACCCACCAAGAGCAGGACCTGGTTCAGCCCACTTCTTCCCTGCTGCCTGG
 GTATCGTGGCCACCCAGTTTCCAGTCTTGGTGAGCAAGCTCCGAGCCAAGTGATGTCCATGGCCCGG
 CCACAGCTGTACACACGATCCTCACCAGAAAGAACTGTTCCACTACGCTGCCCGGATCTGGGATGGG
 TGAGAAAGTCTCTGCTCTGGCAGGTACAGCCGCTGCTGGCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG219022 representing NM_019108
 Red=Cloning site Green=Tags(s)

MAAIDEEGGREIGDEVNVLVKEQTLGVKTLMRLLKEPEKERDSDSDFSPLQQTEGCQRRDKHFRHAENP
 HHPLKTSRAAPLEKPIVLMKPREEGKGPVAVTGASTPEGTAPPPPAAPAPKGEKEGQRPTQPVVQIQN
 RGMGTAAPAAMPDVPVVGQAKLLPPERMKHSIKLVDDQMNWCDIAIEYLLDQTDVLVVGVLGLQGTGKSMVM
 SLLSANTPEEDQRTYVVFRAQSAEMKERRGNTSGIDFFITQERIVFLDTQPIILSPSILDHLINNDRLKPP
 EYNLPHTYVEMQSLQIAAFLFTVCHVVIVVQDWFDTLSLYRLWDLGCKCKSNHSPQTPRFLQTAEMVKP
 STPSPSHSSSSSGSDEGTEYYPHLVFLQNKARREDFCPRKLQMHLMIDQLMAHSHLRYKGTLSMLQC
 VFPGLPPDFLDSEVNLFLVPFMDSEAESENPPRAGPGSSPLFSLPLPGYRGHPSFQSLVSKLRSQVMSMAR
 PQLSHTILTEKNWFHYAARIWDGVRKSSALAEYSRLLA

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_019108

ORF Size: 1584 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_019108.1](#), [NP_061981.1](#)

RefSeq Size: 1587 bp

RefSeq ORF: 1563 bp

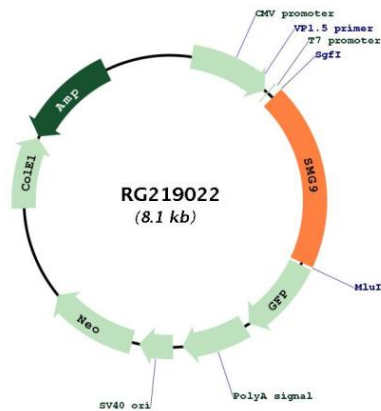
Locus ID: 56006

UniProt ID: [Q9H0W8](#)

Cytogenetics: 19q13.31

Gene Summary: This gene encodes a regulatory subunit of the SMG1 complex, which plays a critical role in nonsense-mediated mRNA decay (NMD). Binding of the encoded protein to the SMG1 complex kinase scaffold protein results in the inhibition of its kinase activity. Mutations in this gene cause a multiple congenital anomaly syndrome in human patients, characterized by brain malformation, congenital heart disease and other features. [provided by RefSeq, Jul 2016]

Product images:



Circular map for RG219022