

Product datasheet for **RC205965**

GARNL3 (NM_032293) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GARNL3 (NM_032293) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	GARNL3
Synonyms:	bA356B19.1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC205965 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAAGCATTTTTGTTCCAGCTCTGTCTCGGAAGACCTAGGCTGTAGACGTGGGGATTTTCAGTAGGAAAC
ATTATGGATCTGTGGAGCTGCTTATTTCCAGTGATGCTGATGGAGCCATCCAAAGGGCTGGAAGATTCAG
AGTGGAAATGGCTCTTCAGATGAGAATGCAACTGCCCTGCCTGGTACTTGGCGAAGAACAGACGTGCAC
TTAGAGAACCCAGAATACCACACCAGATGGTATTTCAAATATTTTTAGGACAAGTCCGTCAGAATAACA
TTGGAACGATGCCGAGAAGAGCCCTTTCTTCTGTCCGTGACCTTTCTGACCAAAACAATCAACGTGT
CCCTCAATACCGTGCAATTCCTTTGGAGAAAAACAGGTACCCAGAAAAATATGCCTTCCTACAGTCCACACA
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TTTTTCATCCTGAAATACAAAAGGACTTGCTGGTCTTGAAGAACAAGAGGGCTCTGTGAATTTCAAGTT
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GTCTGGATACCAAAATGATACCACAGGGATACATTCACTTTTACTGTGTACCAAGGGCATGAGATCAT
GTTTCATGTTTCCACCATGTTGCCATATTCCAAGAGAAACAAACAGCAGGTGGAAGGAAACGCCACATT
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CAGGAATTCAGGGACTTTTTGCTAGTGAAATTAATTAATGGTGAAAAAGCCACTTTGGAACCCCAACAT
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CAGTAATTTCCCTCATGAAGCCGTGTGTGCAGATCCCTGGGGCCAGGCCTTGCTGGTTTCCACTGATGCT



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GGCGTCTTGCTAGTGGATGATGACCTTCCATCAGTGCCCGTGTGGACAGAACTCTGCCAGTGAAGCAAA
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CATCTAGCAGTGACAGGATCCCATCAGGCTCCTTGGAAGTGCTTCTACTTCCGAAGCCAACCTGAGGG
GCACTCAGCCAGCTCTGACCAGGACCTGTGGCAGACAGAGAGGCGAGCCCGGTCTCCGGCAGCAGCCCC
TTCCAGCTCACGGCTTTCTCCGATGAAGACATTATAGACTTGAAG

ACGCGTACGCGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC205965 protein sequence
Red=Cloning site Green=Tags(s)

MKHFCSVVSEDLGCRRGDFSRKHYSVELLISSDADGAIQRAGRFRVENGSSENATALPGTWRRTDVH
LENPEYHTRWYFKYFLGQVRQNYIGNDAEKSPFFLSVTLSDQNNQVRVPQYRAILWRKTGTQKICLPYSPT
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PFQKFLNLLGDTITLKGTWGYRGGLDTKNDTTGIHSVYTVYQGHEIMFHVSTMLPYSKENKQOVERKRI
GNDIVTIVFQEGEESSPAFKPSMIRSHFTIFALVRYNQNDNYRLKIFSEESVPLFGPPLPTPPVFTDH
QEFRDILLVKLINGEKATLETPTFAQKRRRTLDMILSLHQDLMPDLHKNMLNRRSFSDVLPESPKSARK
KEEARQAEFVRIGQALKLSIVRGDAPSSLAASGICKKEPWEPQCFCSNFPHEAVCADPWGQALLVSTDA
GVLLVDDDLPSVPVFDRTLVPKQMHVLETLDLLVLRADKGKDARLFVFRLSALQKLEKQAGKSRSDCR
ENKLEKTKGCHLYAINTHHSRELRIVVAIRNKLILLITRKHNPSTGTSTLLSPLSESPVEEFQYIREIC
LSDSPMVMTLVDGPAEESDNLICVAYRHQFDVNESTGEAFRLHHVEANRVNFVAAIDVYEDGEAGLLC
YNYSCIYKKVCPFNNGSFLVQPSASDFQFCWNQAPYAIVCAFPYLLAFTTDSMEIRLVVNGNLVHTAVVP
QLQLVASRSDIYFTATAAVNEVSSGSSKGASARNSPQTPPGRDTPVPFSSLGEGEIQSKNLYKIPLRNL
VGRSIERPLKSPLVSKVITPPTPISVGLAAIPVTHSLSLSRMEIKEIASRTRRELLGLSDEGGPKSEGAP
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FQLTAFSDEDIIDLK

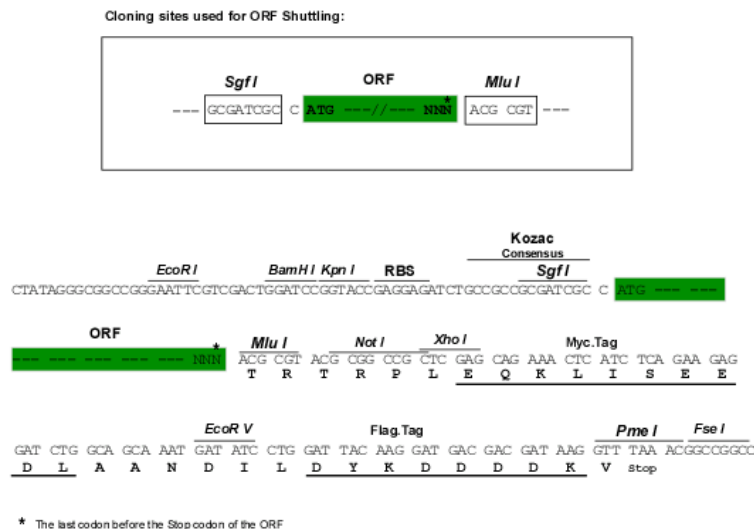
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk6695_c11.zip

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_032293

ORF Size: 2985 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.

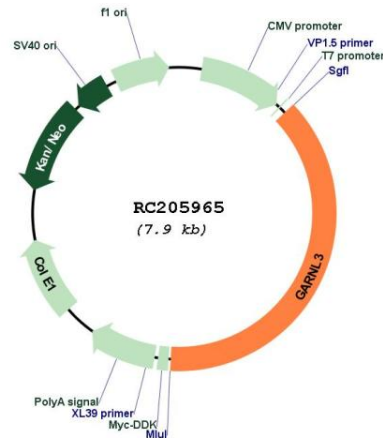
Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_032293.3](#), [NP_115669.2](#)

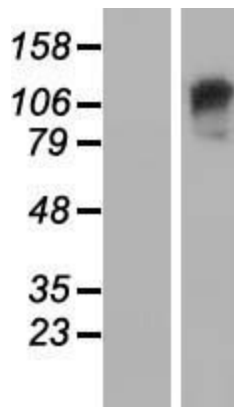
RefSeq Size: 3752 bp

RefSeq ORF: 3042 bp
 Locus ID: 84253
 UniProt ID: [Q5VWW2](#)
 Cytogenetics: 9q33.3
 Domains: Rap_GAP, CNH
 MW: 110.7 kDa

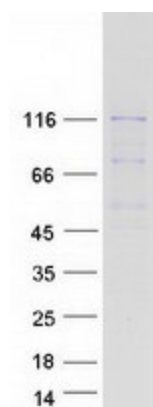
Product images:



Circular map for RC205965



Western blot validation of overexpression lysate (Cat# [LY410236]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC205965 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified GARNL3 protein (Cat# [TP305965]). The protein was produced from HEK293T cells transfected with GARNL3 cDNA clone (Cat# RC205965) using MegaTran 2.0 (Cat# [TT210002]).