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Product datasheet for RC202266

GNL1 (NM_005275) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GNL1 (NM_005275) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	GNL1
Synonyms:	HSR1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC202266 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCCGAGGAAGAAGCCATTCAGCGTGAAGCAGAAGAAGAAGCAGTTGCAGGACAAACGGGAGCGGAAGA
GAGGGCTTCAAGATGGGCTGCGCTCCAGTTCCAACAGCCGCAGCGGGAGCCGGGAGCGGCGAGAGGAACA
GACCGACACCTCGGACGGGGAGTCTGTGACCCATCATATCCGCAGGCTTAACCAGCAGCCTTCTCAGGGG
CTGGGTCCACGAGGCTACGACCCAAATCGATACCGACTGCATTTTGAGAGAGACAGCAGGGAGGAGGTAG
AGAGGAGAAAGAGAGCAGCCCGGGAGCAAGTTCTACAGCCGGTCAGTGCTGAGTTGTTGGAGCTGGACAT
CCGGGAGGTGTATCAGCCTGGCTCAGTTCTGGACTTTCCTCGACGTCCTCCTTGGAGCTATGAGATGTCC
AAGGAGCAACTAATGAGCCAAGAGGAACGGAGCTTCCAAGACTATCTTGGGAAGATTCATGGGGCTTACT
CCTCTGAGAAACTCAGCTACTTTGAGCACAATCTGGAGACATGGAGGCAGCTGTGGCGGGTGTTAGAGAT
GTCTGACATCGTCCTGCTTATCACTGATATCCGACATCCAGTTGTGAATTTCCCGCCAGCACTTTATGAG
TATGTGACTGGAGAACTTGGACTGGCCCTGGTGCTGGTTTTGAACAAGGTGGATCTGGCCCCGCCAGCTC
TTGTGGTTGCCTGGAAGCATTATTTCCATCAACACTATCCCCAGCTCCACGTCGTCCTTTTCACCTCTTT
TCCTCGGGACCCCCGCACCCCACAGGATCCTAGTAGTGTCTTGAAGAAGAGTCGGAGGCGGGGGAGAGGA
TGGACTCGGGCCCTGGGGCCAGAGCAGTTGCTGAGAGCCTGTGAAGCCATCACTGTGGGGAAAGTGGACT
TGAGCAGCTGGCGGGAGAAGATTGCTCGGGATGTGGCTGGGGCCACCTGGGGTAATGGCTCTGGGGAGGA
GGAGGAAGAGGAGGATGGCCCAGCAGTCCTGGTGGAGCAGCAGACTGATTCAGCAATGGAGCCAACTGGC
CCAACCCAAGAGCGCTACAAGGATGGGGTGGTGACCATCGGCTGTGTGGGTTTCCCTAATGTGGGAAAGT
CCTCGCTGATCAATGGGCTGGTGGGGCGGAAAGTCGTGAGTGTCTCCAGAACCCCGGGCCATACCCGATA
CTTTCAGACCTACTTTCTTACCCCCTCTGTGAAGCTCTGTGACTGCCCAGGCCTCATCTTCCCATCTCTT
CTGCCTAGGCAGTTGCAGGTTCTGGCAGGGATCTACCCTATCGCCCAGATCCAGGAGCCCTACACTGCTG
TGGGCTACCTGGCCTCCCGAATTCCCGTGCAGGCCCTGCTCCACCTGCGCCACCCAGAGGCTGAGGACCC
CTCAGCGGAACACCCCTGGTGTGCCTGGGACATCTGTGAAGCCTGGGCAGAGAAACGTGGTTACAAGACA
GCCAAGGCGGCTCGGAATGATGTGTACAGAGCAGCCAACAGTCTCTTGCGGCTGGCAGTGGACGGCCGCC
TCAGCCTGTGTTTTCATCCCCCAGGCTACAGTGAACAGAAAGGCACCTGGGAGTCCCATCCAGAGACCAC
GGAGCTGGTGGTTTTGCAGGGCAGGGTGGGGCCAGCAGGTGACGAGGAGGAGGAGGAAGAGGAAGAGCTG
AGCAGCTCCTGTGAGGAGGAGGGAGAGGAGGACCGGGATGCGGATGAGGAGGGAGAAGGGGATGAGGAGA
CCCCAACCTCGGCTCCAGGGTCCAGCCTGGCTGGCCGAAACCCTTATGCCCTGCTGGGTGAGGATGAGTG
C

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC202266 protein sequence
Red=Cloning site Green=Tags(s)

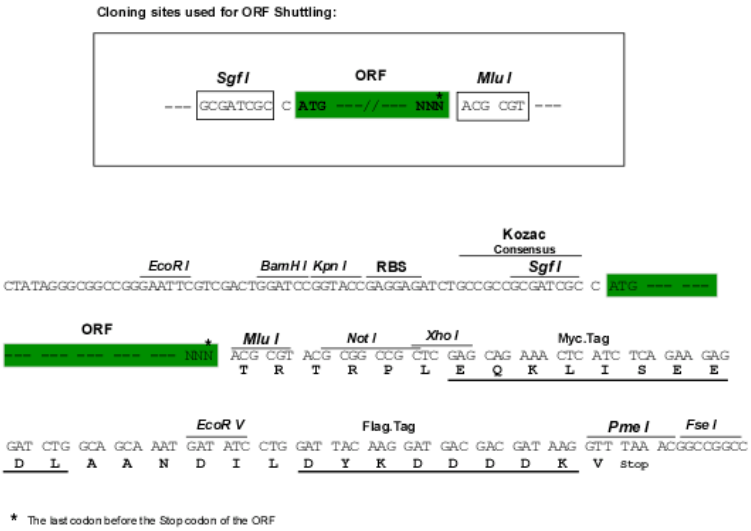
MPRKKPFSVKQKKKQLQDKRERKRGLQDGLRSSSNSRSGSRERREEQTDTSDGESVTHHIRRLNQQPSQG
LGPRGYDPNRYRLHFERDSREEVERRKRAAREQVLQPVSAELLELDIREVYQPGSVLDFPRRPPWSYEMS
KEQLMSQEERSFQDYLGKIHGAYSSEKLSYFEHNLETWRQLWRVLEMSDIVLLITDIRHPVVNFPPALYE
YVTGELGLALVLVLNKVDLAPPALVVAWKHYFHQHYPQLHVVLFTSFPRDPRTPQDPSSVLKKSRRRGRG
WTRALGPEQLLRACEAITVGKVDLSSWREKIARDVAGATWGNGSGEEEEEEDGPAVLVEQQTDSAMEPTG
PTQERYKDGVVTIGCVGFPNVGKSSLINGLVGRKVVSVSRTPGHTRYFQTYFLTPSVKLCDCPGLIFPSL
LPRQLQVLAGIYPIAQIQEPYTAVGYLASRIPVQALLHLRHPEAEDPSAEHPWCAWDICEAWAEKRGYKT
AKAARNDVYRAANSLLRLAVDGRLSLCFHPPGYSEQKGTWESHPETTELVVLQGRVGPAGDEEEEEEEEL
SSSCEEEGEEDRDADEEGEGDEETPTSAPGSSLAGRNPYALLGEDEC

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6682_e07.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_005275

ORF Size: 1821 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.

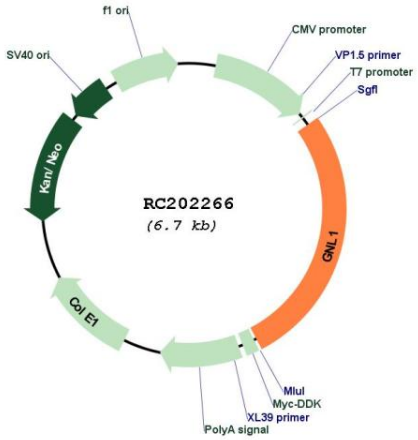
Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: NM_005275.2, NP_005266.2

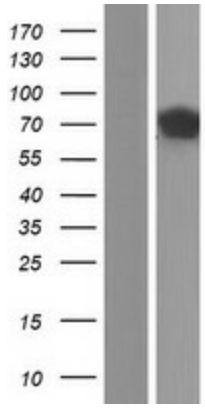
RefSeq Size: 7925 bp

RefSeq ORF:	1824 bp
Locus ID:	2794
UniProt ID:	P36915
Cytogenetics:	6p21.33
Domains:	MMR_HSR1
MW:	68.7 kDa
Gene Summary:	The GNL1 gene, identified in the human major histocompatibility complex class I region, shows a high degree of similarity with its mouse counterpart. The GNL1 gene is located less than 2 kb centromeric to HLA-E, in the same transcriptional orientation. GNL1 is telomeric to HLA-B and HLA-C. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RC202266



Western blot validation of overexpression lysate (Cat# [LY417408]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC202266 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).

Coomassie blue staining of purified GNL1 protein (Cat# [TP302266]). The protein was produced from HEK293T cells transfected with GNL1 cDNA clone (Cat# RC202266) using MegaTran 2.0 (Cat# [TT210002]).