

Product datasheet for **RR201128**

Gnl2 (NM_001025736) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Gnl2 (NM_001025736) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Gnl2
Synonyms:	RGD1305006
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide
Sequence:**

>RR201128 representing NM_001025736
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGTGAAGCCCAAGTATAAAGGACGGAGCACCATCAATCGTCTGGCGGCCAGCACCAACCCAGATCGAG
 TACAGGGAGCTGGAGGCCAAAACATGAGGGACCGGGCACAATTCGGCGCCTGAATATGTACAGGCAAAA
 AGAGCGCAGGAACAGTCGTGGTAAAGTGATTAAGCCACTGCAGTATCAGTCAACTGTGGCTCCTGGCACA
 GTGGCAGGAGTGGAGCCGAATATAAATGGTTTGGAAATACTCGTGTGATCAAGCAGGCATCATTACAAA
 AATTTCAAGAGGAAATGGATAAAGTTATGAAGGATCCATACAAAGTTGTGATGAAACAAAGCAAATTACC
 GATGTCTCTTCTGCACGATCGAGTCCAGCCTCATAACGCAAAGGTCCACATTCTTGATACTGAAAGTTTT
 GAAAGTACATTTGGCCAAAGTACAGAGAAAGCGGCCAAACTTGTTCAGTGATATGCAGTCCCTTC
 TAGAAAACGCTGAAATGTCTACTGAGAGCTATGACCAGGGAAAGGACCGTGATTTGGTGACAGGGACAC
 AGGTGTAAGAAAATGAAGCTCAAGAAGAGATATATAAAAAGGGGCAGTCAAAAAGAATATGGGGAGAACTC
 TACAAGGTGATAGACTCATCAGATGTTGTAGTCCAAGTCTTGACGCTAGAGACCAATGGGCACCTCGTT
 CCTCTCACATCGAAGCTTACTTGAAGAAGGAAAAGCCCTGGAAGCACCTATTTTTGTACTCAATAAGTG
 TGACCTTGTTCCTACTTGGGCAACAAAACGATGGGTTGCTGTGCTCTCCAAGGACTACCCAACTGGCT
 TTCCATGCGAGTCTCACTAATCCCTTTGGGAAAGGAGCATTCAATCAGCTTCTGCGGCAGTTTGGGAAGT
 TGCACACAGACAAGAAACAAATCAGTGTGGGTTCAATGGCTATCCAAATGTAGGCAAGAGCTCTGTGAT
 AAATACATTACGATCCAAGAAAGTTTGCACGTGGCCCAATTGCAGGAGAAAACAAAGGTCTGGCAATAT
 ATTACCTTGATGCGCCGTATATTCCTGATCGACTGCCCTGGTGTGGTTTACCCATCTGAGGACTCAGAGA
 CCGACATTTGTTCTCAAAGGAGTGGTTCAAGTTGAAAAAATTAAGCTCCTCAAGACCACATTGGTGTCTGT
 CCTTGAACGAGCAAAGCCAGAATATATCAGCAAGACATACAAGATTGAGTCTGGGAGAATGCTGAAGAC
 TTTCTCGAGAAACTAGCTCTCCGCACCGGGAAGTTACTGAAGGGTGGAGAGCCTGACTTGTGACCGTGA
 GCAAGATGGTGTCAATGACTGGCAGAGAGGCCGGATCCCTTTCTTTGTCAAGCCTCCCAACGCAGAGAT
 GCCGACCACTCCCAGCTCCCACCCTCCTCACCATTGGAAGTTACCACAGAAAACACGCAGAAACACCCA
 GAAGAGGAGACCATAGAAAACAGAAGTCGAAAGGTCAGACTCTGTCATTGAAAAGGAGCCAGAAGCAGGCT
 GTTCCCAGGATGAAAACAGAGATGCAACAGATCCTCGCACGGGTTCCGCAGAACTTTGGTAAAATCAA
 TGTAGGGCCTCAGTTCTCTGCGGACGACCTGGTGCCCGTGGACGACCTGGTGCCCGTGGACTTGTGAGC
 CTGGAAGATCTGGAAGCTCTGAGGAGGAGGAGGAGCAGGAGCAGGAGCAGCCAGGAGAGGATGCTGAGG
 AAGAGTGTTCGGGAGACACGCGGGGAGGCCCGTGGAAAGATGACACCAAAGCTGTGATCAGAGCCCTAGA
 TGAGAAGATTGCCAAGTACCAGAGGTTTCTAAATAAAGCCAAAGCTAAAAAGTTCTCTGCCATCAGAATA
 TCCAAAGACTTAAGTAAAAGGTTTTTGTCTAAGTATGAAGAAGAGAAGAAAGCGTCTGCAGAAGTCAAGT
 ATGCAGCACCCACAAAAGGGCAAGGAAGTGGAAATGCACAGGTGGAAGAAGAGCCTTCAGATAAGACTCA
 GAGGATGCTGACGTGTAAGGAACGGAGGAGAGCAGCTCGGCAGCAACAATCCAAAAAAGTCGGTGTGCGC
 TACTATGAAACACACAACGTGAAAAACAGAAACAGGAACAAAAAGAAGACGAATGACTCAGAGGGACAGA
 AACACAGACATAAGAAGTTCAGACAGAAGCAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGAT AAGGTTTAA

Protein Sequence: >RR201128 representing NM_001025736
Red=Cloning site Green=Tags(s)

MVKPKYKGRSTINRSAASTNPDRVQGAGGQNMRRDGTIRRLNMYRQKERRNSRGKVIKPLQYQSTVAPGT
 VARVEPNIKWFGNTRVIKQASLQKFQEEMDKVMKDPYKVVMMQSKLPMSELLHDRVQPHNAKVHILDTESEF
 ESTFGPKSQKRPNLFAADMQSLENAEMSTESYDQGDRLVTEDTGVRNEAQEEIYKKGQSKRIWGEL
 YKVIDSSDVVVQVLDARDFMGRSSHIEAYLKEKPKWHLIFVLNKCDLVPTWATKRWVAVLSKDYPTLA
 FHASLTNPFQKGAFIQLLRQFGKLTHTDKKQISVGFIGYPNVGKSSVINTLRSKKVCNVAPIAGETKVVWQY
 ITLMRRIFLIDCPGVVYPSSESETDIVLKGVVQVEKIKAPQDHIGAVLERAKPEYISKTYKIESWENAED
 FLEKLALRTGKLLKGGEPDLLTVSKMVLNDWQRGRIPFFVKPPNAEMPTTPQLPPSSPLEVTTETTQNNP
 EEETIETEVEVS SVIEKEPEAGCSQDENSEMQQILARVRQNFQKINVGPQF SADDLVPVDDLVPVDSL
 LEDLESSEEEEEQE QEPGEDAEEECSRDRGGPVEDDTKAVIRALDEKIAKYQRFNLKAKAKKFSAIRI
 SKDLSEKVFAYE EKKASAEVSDAAPT KRARKWNAQVEE EEP SDKTQRMLTCKERRRARQQSKKVGVR
 YYETHNVKNRNRNKKKTNDSEGQKHRHKKFRQKQ

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_001025736

ORF Size: 2202 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.

RefSeq: [NM_001025736.1](#), [NP_001020907.1](#)

RefSeq Size: 2328 bp

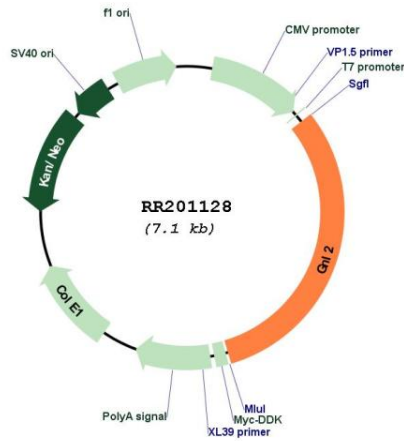
RefSeq ORF: 2205 bp

Locus ID: 362593

Cytogenetics: 5q36

MW: 83.9 kDa

Product images:



Circular map for RR201128