

Product datasheet for MR202425

1700012G19Rik (BC083113) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	1700012G19Rik (BC083113) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	1700012G19Rik
Synonyms:	1700012G19Rik; AI481330; AUM; G3PP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR202425 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCAGAGGGCGGAAGCCGGTGGCGACGAAGCCCGCTGCGTGCGGCTGAGCGCCGAGCGGGCCAAGTTGC
TGCTGGCCGAGGTGGACACGCTGCTGTTTCGACTGCGATGGCGTGCTGTGGCGGGCGAGACGGCCGTGCC
GGGGGCGCCGAGACTCTGCGGGCTCTGCGGGCCCGGCAAGCGACTGGGCTTCATCACCAACAACAGC
AGCAAGACTCGCACGGCCTACGCGGAGAAGCTAAGGCGCTTGGGTTTCGGCGCCCGGTGGGCCCCGAAG
CTGGCCTCGAGGTGTTTCGGCACGGCCTATTGCAGCGCGCTCTATCTGCGCCAACGCTGGCCGGCGTGCC
GGACCCCAAGGCCTACGTGCTGGCAGCCCGCCCTTAGCAGCCGAGCTGGAGGCCGTGGGTGCTACTAGC
GTGGGCGTGGGCCCGGACGTGCTTCACGGCGATGGCCCCAGCGACTGGTAGCCGTGCCGCTCGAACCCG
ACGTGCGCGCGGTAGTGGTGGGCTTCGACCCACACTTCAGCTACATGAAGCTCACCAAGGCCGTGCGGTA
CCTGCAGCAGCCCGACTGTCTGCTCGTGGGCACCAACATGGACAACCGGCTCCCGCTAGAGAACGGCCGT
TTCATTGCGGGTCCGTGCACC

ACGCGTACGCGGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR202425 protein sequence
Red=Cloning site Green=Tags(s)

MAEAEAGGDEARCVRLSAERAKLLLAEVDTLFLDCDGVLRGETAVPGAPETLRALRARGKRLGFITNNS
 SKTRTAYAEKLRRLGFGGPGVPEAGLEVFGTAYCSALYLRQRLAGVDPKAYVLGSPALAAELEAVGVTS
 VGVGPDVLHGDGSPDWLAVPLEPDVRAVVVGFDPHFSYMKLTKAVRYLQQPDCLLVGTNMDNRLPLENGR
 FIAGPCT

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: BC083113

ORF Size: 651 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: [BC083113](#), [AAH83113](#)

RefSeq Size: 1175 bp

RefSeq ORF: 653 bp

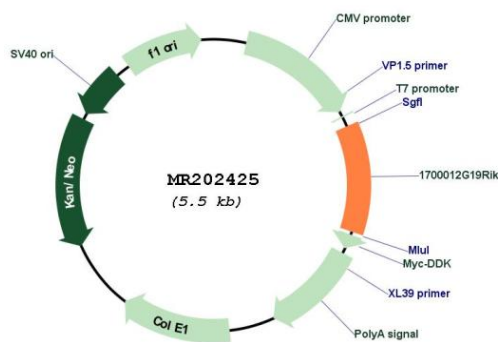
Locus ID: 67078

Cytogenetics: 17 A3.3

MW: 23.1 kDa

Gene Summary: Glycerol-3-phosphate phosphatase hydrolyzing glycerol-3-phosphate into glycerol. Thereby, regulates the cellular levels of glycerol-3-phosphate a metabolic intermediate of glucose, lipid and energy metabolism (PubMed:26755581). Was also shown to have a 2-phosphoglycolate phosphatase activity and a tyrosine-protein phosphatase activity. However, their physiological relevance is unclear (PubMed:26755581, PubMed:24338473). In vitro, has also a phosphatase activity toward ADP, ATP, GDP and GTP (PubMed:24338473).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR202425