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Product datasheet for RR203836

Galk1 (NM_001008282) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Galk1 (NM_001008282) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Galk1
Synonyms:	Galk; Glk
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RR203836 representing NM_001008282 Red=Cloning site Blue=ORF Green=Tags(s) TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCCGCGATCGCC ATGGCTGCTTGGAGACCGCCCCGGGTTGAGGAGCTGCTGGCCGAGGCCCGGCGGGCCTTCATGGAGGAGT TTGGAGCCGAGCCGGAGCTGGCAGTGTCGGCGCCTGGCCGCGTCAACCTCATCGGGGAGCACACGGATTA CAACCAGGGCCTGGTGCTGCCCATGGCTCTGGAGCTTGTGACGGTGATGGTTGGCAGCCCCCGGACAGAT GGGCTTGTTTCTCTCCTCACCACTTCCAAAGATGCAGACGAGCCCCAGCGACTGCAGTTCCCACTGCCCT CAGCCCAGTGGTCCTTGGAGCCTGGAATCCCACAGTGGGCCAATTATGTCAAGGGAGTGATTCAGTATTA CCCAGCTTCCCCTCTCTGTGGCTTCAGCGCAGTGGTGGTCAGCTCAGTGCCCCTGGGGGGTGGTCTTTCC AGCTCAGCTTCTCTGGAAGTGGCCACGTACGCCTTCCTCCAGCAGCTCTGCCCAGACTCGGGGTCAATAG CCGCTCGGGCCCAGGTGTGTCAACGGGCTGAGCACAGCTTCGCAGGGGTGCCCTGTGGCATCATGGACCA ACTCATCGCACTGCTGGGGCAGAAAGGCTATGCGCTACTCATTGACTGCAGGTCCCTGGAAACAAGCCTG GTGCCGCTGTCAGACCCTAAGCTGACCGTGCTCATCACCAACTCCAATGTCCGCCATTCCCTGGCCTCCA GCGAGTACCCGATTCGTCGGCGCCAGTGTGAAGAGGTGGCCCAGGCCCTGGGCAAGGAGAGCCTTCGGGA GGTGCGGATGGAGGAACTTGAGGCGGGCAGGGAGCTGATGAGCAAGGAGGGTTTCCGGCGGGCCCGGCAC GTGGTTAGCGAGATCCGGCGAACAGCCCAGGGAGCAGCTGCTCTGAGCCGAGGAGACTATAAGGCCTTTG GACGTCTCATGGTGGAGAGTCACTATTCCCTCAGAGATGACTATGAGGTGAGCTGCCCTGAGCTGGACCT ATTGGTTGAGGCTGCGCTCTCTGTGCCTGGAGTTTACGGCAGTCGCATGACAGGCGGTGGCTTCGGCGGC TGCACTGTCACGTTGCTGGAGGCCTCTGTTGCCCCCCTTGTCATGCATCACATACAGGAGCAGTACAGCG GGACAGCCACCTTCTACCTCACTCAAGCTGCCGATGGAGCCCAGGTGCTGAGCTTG ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAGGTTTAA

View online »

Protein Sequence:

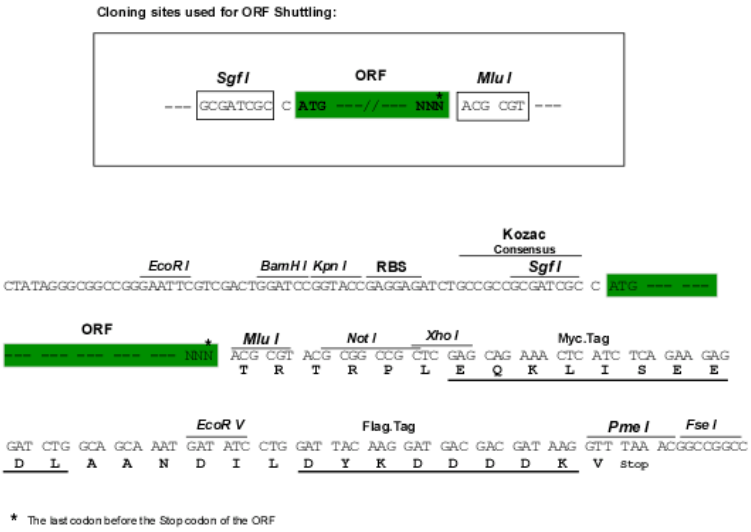
>RR203836 representing NM_001008282
Red=Cloning site Green=Tags(s)

MAAWRPPRVEELLAEARRAFMEEFGAEPELAVSAPGRVNLIGEHTDYNQGLVLPMALELVTVMVGSPRTD
GLVSLLTTSKDADEPQRLQFPLPSAQWSLEPGIPQWANYVKGVIQYYPASPLCGFSAVVVSSVPLGGGLS
SSASLEVATYAFLQQLCPDSGSIAARAQVCQRAEHSFAGVPCGIMDQLIALLGQKGYALLIDCRSLETSL
VPLSDPKLTVLITNSNVRHSLASSEYPIRRRQCEEVAQALGKESLREVRMEELEAGRELMSKEGFRRARH
VVSEIRRTAQGAAALSRGDYKAFGRLMVESHYSLRDDYEVSCPELDLLVEAALSVPGVYGSRMTGGGFGG
CTVTLLEASVAPLVMHHIQEQYSGTATFYLTQAADGAQVLSL

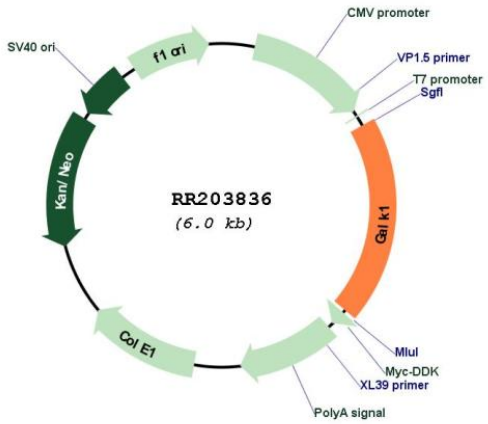
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001008282

ORF Size:	1176 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_001008282.1, NP_001008283.1
RefSeq Size:	1486 bp
RefSeq ORF:	1179 bp
Locus ID:	287835
Cytogenetics:	10q32.1
MW:	42.4 kDa
Gene Summary:	human homolog catalyzes the conversion of ATP and D-galactose to ADP and D-galactose 1-phosphate in galactose metabolism [RGD, Feb 2006]