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Product datasheet for RC208348

GLYCTK (NM_145262) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GLYCTK (NM_145262) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	GLYCTK
Synonyms:	HBeAgBP4A; HBEBP2; HBEBP4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

View online »

ORF Nucleotide Sequence:

>RC208348 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCTGCAGCCCTGCAGGTCCTGCCCCGCTTGGCCCGAGCCCCCTTGCATCCACTCCTCTGGCGGGGCT
CAGTGGCCCGTCTGGCCAGCAGCATGGCCTTGGCAGAGCAGGCCAGGCAGCTGTTTGAGAGTGCTGTAGG
TGCAGTGCTGCCGGGCCCCATGCTGCACCGGGCACTATCCTTGGACCCTGGTGGCAGACAGCTGAAGGTG
CGGGACCGGAACTTTCAGCTGAGGCAAAACCTCTACCTGGTGGGCTTTGGCAAGGCTGTGCTGGGTATGG
CAGCTGCAGCTGAGGAACTACTGGGCCAGCATCTTGTGCAGGGCGTGATCAGCGTTCCCAAGGGGATCCG
TGCTGCCATGGAGCGTGCCGGCAAGCAGGAGATGCTGCTGAAGCCACATAGCCGTGTCCAGGTATTCGAG
GGTGCGGAGGACAACCTCCCGGACCGCGATGCGCTGCGGGCTGCACTGGCCATCCAGCAACTGGCTGAGG
GACTCACAGCTGATGACCTGCTGCTCGTGCTGATCTCAGGTGGGGGTTCAGCTCTGCTGCCTGCCCCCAT
CCCACCTGTCACACTGGAGGAGAAGCAGACACTCACTAGACTGCTGGCAGCCCGTGGAGCCACCATCCAG
GAGTTGAACACCATTCGGAAGGCCCTGTCCCAGCTCAAGGGTGGGGGGCTGGCTCAGGCCGCCTACCCTG
CCCAGGTGGTGAGCCTCATCCTGTCAGATGTGGTGGGGGACCCTGTGGAGGTGATTGCCAGTGGCCCCAC
CGTGGCCAGTTCCCACAATGTGCAAGATTGCCTGCATATCCTCAATCGCTACGGCCTCCGTGCAGCCCTG
CCACGTTCTGTGAAGACTGTGCTGTCTCGGGCCGACTCTGACCCCCATGGGCCACACACCTGTGGCCATG
TCCTGAATGTGATCATTGGCTCTAATGTGCTGGCGCTAGCTGAGGCCCAGCGGCAGGCCGAGGCACTGGG
CTACCAGGCTGTGGTGCTGAGTGCAGCCATGCAAGGTGATGTAAAAAGTATGGCCCAGTTCTACGGGCTG
CTGGCCCATGTGGCTAGAACCCGCCTCACCCCATCCATGGCTGGGGCTTCTGTGGAGGAAGATGCACAGC
TCCATGAGCTGGCAGCTGAGCTTCAGATCCCAGACCTGCAGCTGGAGGAGGCTCTGGAGACCATGGCATG
GGGAAGGGGCCCAGTCTGCCTGCTGGCTGGTGGCGAGCCCACAGTACAGCTGCAGGGCTCGGGCAGGGGT
GGCCGGAACCAGGAACTGGCCCTGCGTGTTGGAGCAGAGTTGAGAAGGTGGCCGCTGGGGCCGATAGATG
TGCTGTTTTTGAGCGGTGGCACCGATGGGCAGGATGGGCCCACAGAGGCTGCTGGGGCCTGGGTCACACC
TGAGCTTGCCAGCCAGGCTGCAGCTGAGGGCCTGGACATAGCCACCTTCCTAGCCCACAATGACTCACAT
ACCTTCTTCTGCTGCCTCCAGGGTGGGGCACACCTGCTGCACACAGGGATGACAGGTACCAATGTCATGG
ACACCCACCTCTTGTTCCTGCGGCCTCGG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC208348 protein sequence
Red=Cloning site Green=Tags(s)

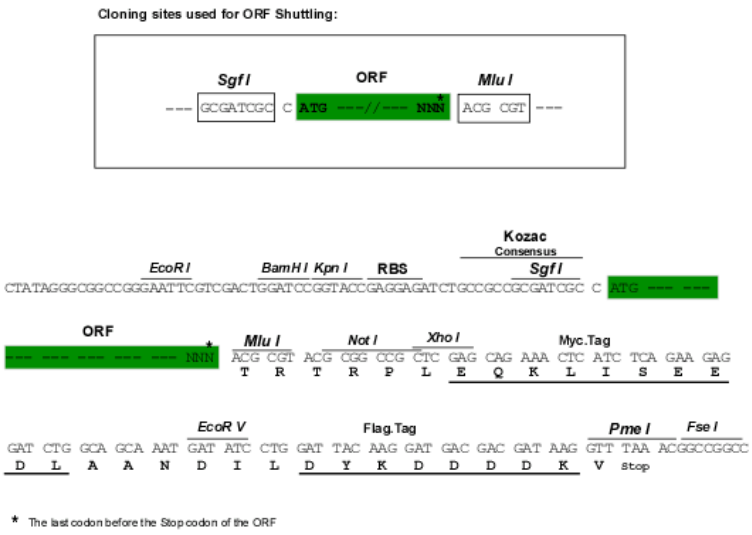
MAAALQVLPRLARAPLHPLLWRGSVARLASSMALAEQARQLFESAVGAVLPGPMLHRALSLDPGGRQLKV
RDRNFQLRQNLYLVGFGKAVLGMAAAAEELLGQHLVQGVISVPKGIRAAMERAGKQEMLLKPHSRVQVFE
GAEDNLPDRDALRAALAIQQLAEGLTADDLLLVLISGGGSALLPAPIPPVTLEEKQTLTRLLAARGATIQ
ELNTIRKALSQLKGGGLAQAAYPAQVVSLILSDVVGDPVEVIASGPTVASSHNVQDCLHILNRYGLRAAL
PRSVKTVLSRADSDPHGPHTCGHVLNVIIGSNVLALAEAQRQAEALGYQAVVLSAAMQGDVKSMAQFYGL
LAHVARTRLTPSMAGASVEEDAQLHELAAELQIPDLQLEEALETMAWGRGPVCLLAGGEPTVQLQGSGRG
GRNQELALRVGAELRRWPLGPIDVLFLSGGTDGQDGPTEAAGAWVTPELASQAAAEGLDIATFLAHNDSH
TFFCCLQGGAHLLHTGMTGTNVMDTHLLFLRPR

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6149_d04.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_145262

ORF Size: 1569 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_145262.4

RefSeq Size: 3798 bp

RefSeq ORF: 1572 bp

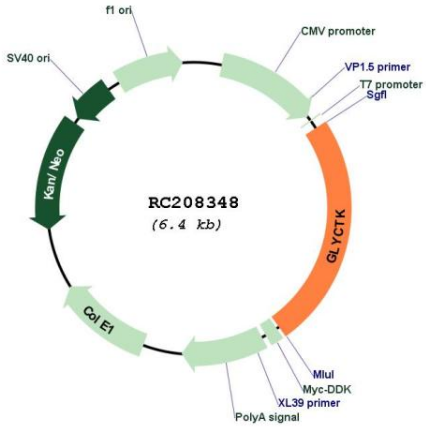
Locus ID: 132158

UniProt ID: Q8IVS8

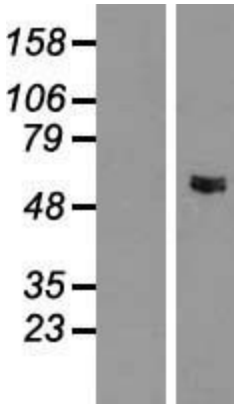
Cytogenetics: 3p21.2

Domains:	MOFRL
Protein Families:	Transcription Factors
Protein Pathways:	Glycerolipid metabolism, Glycine, serine and threonine metabolism, Glyoxylate and dicarboxylate metabolism, Metabolic pathways
MW:	55.3 kDa
Gene Summary:	This locus encodes a member of the glycerate kinase type-2 family. The encoded enzyme catalyzes the phosphorylation of (R)-glycerate and may be involved in serine degradation and fructose metabolism. Decreased activity of the encoded enzyme may be associated with the disease D-glyceric aciduria. Alternatively spliced transcript variants have been described. [provided by RefSeq, Jan 2009]

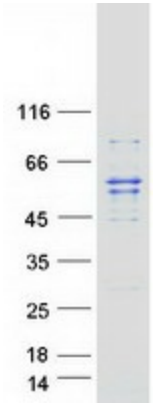
Product images:



Circular map for RC208348



Western blot validation of overexpression lysate (Cat# [LY407988]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC208348 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified GLYCTK protein (Cat# [TP308348]). The protein was produced from HEK293T cells transfected with GLYCTK cDNA clone (Cat# RC208348) using MegaTran 2.0 (Cat# [TT210002]).