

## Product datasheet for RC227749

### GLYCTK (NM\_001144951) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	GLYCTK (NM_001144951) 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)
ORF Nucleotide Sequence:	>RC227749 representing NM_001144951 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCTGCAGCCCTGCAGGTCCTGCCCGCTTGGCCCGAGCCCCCTTGCATCCACTCCTCTGGCGGGGCT  
CAGTGGCCCGTCTGGCCAGCAGCATGGCCTTGGCAGAGCAGGCCAGGCAGCTGTTTGAGAGTGCTGTAGG  
TGCAGTGCTGCCGGGCCCATGCTGCACCGGGCACTATCCTTGGACCCTGGTGGCAGACAGCTGAAGGTG  
CGGGACCGGAACCTTTCAGCTGAGGCAAACTCTACCTGGTGGGCTTTGGCAAGGCTGTGCTGGGTATGG  
CAGCTGCAGCTGAGGAAGTACTGGCCAGCATCTGTGCAGGGCGTGATCAGCGTCCCAAGGGGATCCG  
TGCTGCCATGGAGCGTGCCGGCAAGCAGGAGATGCTGCTGAAGCCACATAGCCGTGCCAGTATTCGAG  
GGTGGCAGGAGACAACCTCCCGGACCGCGATGCGCTGCGGGCTGCACTGGCCATCCAGCAACTGGCTGAGG  
GACTCACAGCTGATGACCTGCTGCTCGTGTCTCAGGTGGTGGAGCCTCATCCTGTCAGATGTGGTGG  
GGGACCTGTGGAGGTGATTGCCAGTGGCCCCACCGTGGCCAGTCCCAATGTGCAAGATTGCCTGCA  
TATCCTCAATCGCTACGGCCTCCGTGCAGCCCTGCCACGTTCTGTGAAGACTGTGCTGTCTCGGGCCGAC  
TC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RC227749 representing NM\_001144951  
Red=Cloning site Green=Tags(s)

MAAALQVLPRLARAPLHPLLWRGSVARLASSMALAEQARQLFESAVGAVLPGPMLHRALSLDPGGRQLKV  
 RDRNFQLRQNL YLVGF GKAVLGM AAAEELLGQHLVQGVISV PKGIRAAMERAGKQEMLLKPHSRVQVFE  
 GAEDNLPDRDALRAALAIQQLAEGLTADDLLLVLISGGEPHPVRCGGPCGGDCQWPHRQGFQCARLPA  
 YPQSLRPPCSPATFCEDCAVSGRL

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\_001144951

**ORF Size:** 702 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\\_001144951.1](#), [NP\\_001138423.1](#)

**RefSeq ORF:** 705 bp

**Locus ID:** 132158

**UniProt ID:** [Q8IVS8](#)

**Cytogenetics:** 3p21.2

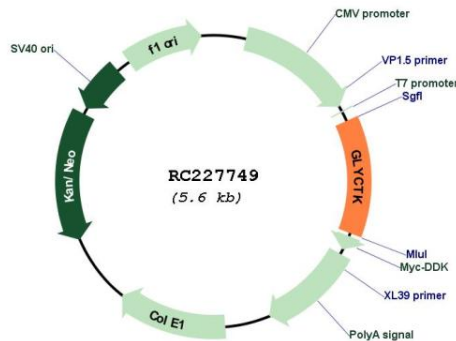
**Protein Families:** Transcription Factors

**Protein Pathways:** Glycerolipid metabolism, Glycine, serine and threonine metabolism, Glyoxylate and dicarboxylate metabolism, Metabolic pathways

**MW:** 24.9 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 RC227749