

Product datasheet for **RG227749**

GLYCTK (NM_001144951) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GLYCTK (NM_001144951) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	GLYCTK
Synonyms:	HBeAgBP4A; HBEBP2; HBEBP4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG227749 representing NM_001144951 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCTGCAGCCCTGCAGGTCCTGCCCGCTTGGCCCGAGCCCCCTTGCATCCACTCCTCTGGCGGGGCT
CAGTGGCCCGTCTGGCCAGCAGCATGGCCTTGGCAGAGCAGGCCAGGCAGCTGTTTGAGAGTGCTGTAGG
TGCAGTGCTGCCGGGCCCATGCTGCACCGGGCACTATCCTTGGACCCTGGTGGCAGACAGCTGAAGGTG
CGGGACCGGAACCTTTCAGCTGAGGCAAAACCTCTACCTGGTGGGCTTTGGCAAGGCTGTGCTGGGTATGG
CAGCTGCAGCTGAGGAAGTACTGGCCAGCATCTGTGCAGGGCGTGATCAGCGTCCCAAGGGGATCCG
TGCTGCCATGGAGCGTGCCGGCAAGCAGGAGATGCTGCTGAAGCCACATAGCCGTGCCAGTATTCGAG
GGTGGCAGGAGACAACCTCCCGGACCGCGATGCGCTGCGGGCTGCACTGGCCATCCAGCAACTGGCTGAGG
GACTCACAGCTGATGACCTGCTGCTCGTGTCTCAGGTGGTGGAGCCTCATCCTGTCAGATGTGGTGG
GGGACCTGTGGAGGTGATTGCCAGTGGCCCCACCGTGGCCAGTCCCAATGTGCAAGATTGCCTGCA
TATCCTCAATCGCTACGGCCTCCGTGCAGCCCTGCCACGTTCTGTGAAGACTGTGCTGTCTCGGGCCGAC
TC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG227749 representing NM_001144951
Red=Cloning site Green=Tags(s)

MAAALQVLPRLARAPLHPLLWRGSVARLASSMALAEQARQLFESAVGAVLPGPMLHRALSLDPGGRQLKV
 RDRNFQLRQNL YLVGF GKAVLGM AAAEELLGQHLVQGVISVPGKIRAAMERAGKQEMLLKPHSRVQVFE
 GAEDNLPDRDALRAALAIQQLAEGLTADDLLLVLISGGEPHPVRCGGPCGGDCQWPHRQGFPCARLPA
 YPQSLRPPCSPATFCEDCAVSGRL

TRTRPLE - GFP Tag - V

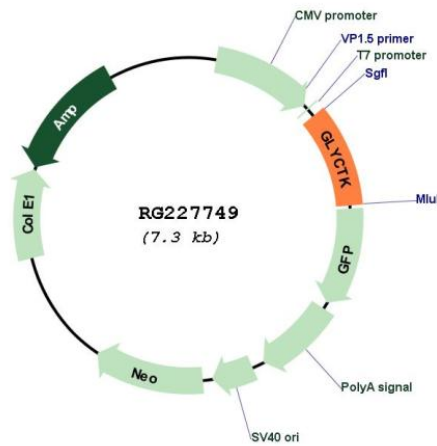
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



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:	<ol style="list-style-type: none">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 Size:	1371 bp
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
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]