

Product datasheet for **SC319873**

GLYCTK (NM_145262) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GLYCTK (NM_145262) Human Untagged Clone
Tag:	Tag Free
Symbol:	GLYCTK
Synonyms:	HBeAgBP4A; HBEBP2; HBEBP4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene sequence for NM_145262.2
 CGCGGCCGGAGCTGTGGGCTGGCAGCCATGGGTGCCAGGCAGTGCTGAGAGCAGTGGGGC
 ATGGCTGCAGCCCTGCAGGTCCTGCCCCGCTTGGCCCCAGCCCCCTTGCATCCACTCCTC
 TGGCGGGGCTCAGTGGCCCGTCTGGCCAGCAGCATGGCCTTGGCAGAGCAGGCCAGGCAG
 CTGTTTGAAGTGTGTAGGTGCAGTGTGCCGGGCCCATGTGCACCCGGGCACTATCC
 TTGGACCCTGGTGGCAGACAGCTGAAGGTGCGGGACCGAACTTTCAGCTGAGGCAAAAC
 CTCTACCTGGTGGGCTTTGGCAAGGCTGTGCTGGGTATGGCAGCTGCAGCTGAGGAACTA
 CTGGGCCAGCATCTTGTGCAGGGCGTGATCAGCGTTCCCAAGGGGATCCGTGCTGCCATG
 GAGCGTGCCGGCAAGCAGGAGATGCTGCTGAAGCCACATAGCCGTGTCCAGGTATTTCGAG
 GGTGCGGAGGACAACCTCCCGGACCGCGATGCGCTGCGGGCTGCACTGGCCATCCAGCAA
 CTGGCTGAGGGACTCACAGCTGATGACCTGCTGCTCGTGCTGATCTCAGGTGGGGTTCA
 GCTCTGCTGCCTGCCCCATCCACCTGTCACACTGGAGGAGAAGCAGACACTACTAGA
 CTGCTGGCAGCCCGTGGAGCCACCATCCAGGAGTTGAACACCATTGGAAGGCCCTGTCC
 CAGCTCAAGGGTGGGGGCTGGCTCAGGCCGCTACCCTGCCAGGTGGTGAACCTCATC
 CTGTCAGATGTGGTGGGGGACCCTGTGGAGGTGATTGCCAGTGGCCCCACCGTGGCCAGT
 TCCACAATGTGAAGATTGCCTGCATATCCTCAATCGCTACGGCCTCCGTGCAGCCCTG
 CCACGTTCTGTGAAGACTGTGCTGTCTCGGGCCGACTCTGACCCCATGGGCCACACACC
 TGTGGCCATGTCTGAATGTGATCATTGGCTCTAATGTGCTGGCGCTAGCTGAGGCCAG
 CGGCAGGCCGAGGCACTGGGCTACCAGGCTGTGGTGTGAGTGCAGCCATGCAAGGTGAT
 GTAAAAAGTATGGCCAGTTCTACGGGCTGCTGGCCCATGTGGCTAGAACCCGCCTCACC
 CCATCCATGGCTGGGGCTTCTGTGGAGGAAGATGCACAGCTCCATGAGCTGGCAGCTGAG
 CTTAGATCCCAGACCTGCAGCTGGAGGAGGCTCTGGAGACCATGGCATGGGAAGGGGC
 CCAGTCTGCCTGCTGGCTGGTGGCGAGCCACAGTACAGCTGCAGGGCTCGGGCAGGGG
 GGCCGGAACCAAGAACTGGCCCTGCGTGTGGAGCAGAGTTGAGAAGGTGGCCGCTGGGG
 CCGATAGATGTGCTGTTTTGAGCGGTGGCACCAGTGGGAGGATGGGCCACAGAGGCT
 GCTGGGGCTGGGTACACCTGAGCTTGGCAGCCAGGCTGCAGCTGAGGGCTGGACATA
 GCCACCTTCTAGCCACAATGACTCACATACCTTCTTCTGCTGCCTCCAGGGTGGGGCA
 CACCTGCTGCACACAGGGATGACAGGTACCAATGTCATGGACACCCACCTTGTTCCTG
 CGGCCTCGGTGATGGCATAGGTACATTTGGGAGTTCAGAGGAGGCTACAAGGGCAAG
 GTCAGATGGCAGAGCAAGTTGGTCTCAGGGCCTCTAAGCCTTAGGGCCCTCTCT
 CCTTGGCCTTGGCTGTTGGTAACTGTCACCTTCCACTCAGGGCCTCTGCTCTATATCT
 ATTCCCTTCCAGCCAGACTGGCAGATGGGGCTTCCCCCTACCCCTGAGGATGAGGACAA
 GCCCTCGGCCAGTTCAGCGTTCCTGCTTCTCCCTTGGGCAGCCTCTCTTTGAGCCC
 CTCACCCTGTTTCTTCTGTGAAGCGAGAATGTCTGAAAAATAATAGGACCATGCCATGG
 GTAAAAAAAAAAAAAAAAAAAAA

Restriction Sites: Please inquire

ACCN: NM_145262

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

OTI Annotation: This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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_145262.2 , NP_660305.2
RefSeq Size:	2006 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
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (1) encodes the longer isoform (1), also known as GLYCTK1.</p> <p>Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.</p>