

Product datasheet for **SC202241**

GAPDH (NM_002046) Human 3' UTR Clone

Product data:

Product Type:	3' UTR Clones
Product Name:	GAPDH (NM_002046) Human 3' UTR Clone
Vector:	pMirTarget (PS100062)
Symbol:	GAPDH
Synonyms:	G3PD; GAPD; HEL-S-162eP
ACCN:	NM_002046
Insert Size:	231 bp
Insert Sequence:	>SC202241 3'UTR clone of NM_002046 The sequence shown below is from the reference sequence of NM_002046. The complete sequence of this clone may contain minor differences, such as SNPs. Blue=Stop Codon Red=Cloning site

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GGCAAGTTGGACGCCCGCAAGATCCGCGAGATTCTCATTAAAGCCAAGAAGGGCGGAAAGATCGCCGTG
TAACAATTGGCAGAGCTCAGAATTCAAGCGATCGCC
CTCATGGCCACATGGCCTCCAAGGAGTAAGACCCCTGGACCACCAGCCCCAGCAAGAGCACAAGAGGA
AGAGAGAGACCCTCACTGCTGGGGAGTCCCTGCCACACTCAGTCCCCACCACACTGAATCTCCCTCC
TCACAGTTGCCATGTAGACCCCTTGAAGAGGGGAGGGCCTAGGGAGCCGCACCTTGTCATGTACCATC
AATAAAGTACCCTGTGCTCAACCA
ACGCGTAAGCGGCCGCGCATCTAGATTGAAAGAAAATGACCGACCAAGCGACGCCCAACCTGCCATCA
CGAGATTCGATTCCACCGCCCTTCTATGAAAGG
```

Restriction Sites:	SgfI-MluI
OTI Disclaimer:	Our molecular clone sequence data has been matched to the sequence identifier above as a point of reference. Note that the complete sequence of this clone is largely the same as the reference sequence but may contain minor differences, e.g., single nucleotide polymorphisms (SNPs).
Components:	The cDNA clone is shipped in a 2-D bar-coded Matrix tube as 10 ug dried plasmid DNA. The package also includes 100 pmols of both the corresponding 5' and 3' vector primers in separate vials.
RefSeq:	<u>NM_002046.7</u>



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Summary:

This gene encodes a member of the glyceraldehyde-3-phosphate dehydrogenase protein family. The encoded protein has been identified as a moonlighting protein based on its ability to perform mechanistically distinct functions. The product of this gene catalyzes an important energy-yielding step in carbohydrate metabolism, the reversible oxidative phosphorylation of glyceraldehyde-3-phosphate in the presence of inorganic phosphate and nicotinamide adenine dinucleotide (NAD). The encoded protein has additionally been identified to have uracil DNA glycosylase activity in the nucleus. Also, this protein contains a peptide that has antimicrobial activity against *E. coli*, *P. aeruginosa*, and *C. albicans*. Studies of a similar protein in mouse have assigned a variety of additional functions including nitrosylation of nuclear proteins, the regulation of mRNA stability, and acting as a transferrin receptor on the cell surface of macrophage. Many pseudogenes similar to this locus are present in the human genome. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Nov 2014]

Locus ID: 2597

MW: 8.3