

Product datasheet for SC335421

GAPDH (NM_001289746) Human Untagged Clone

Product data:

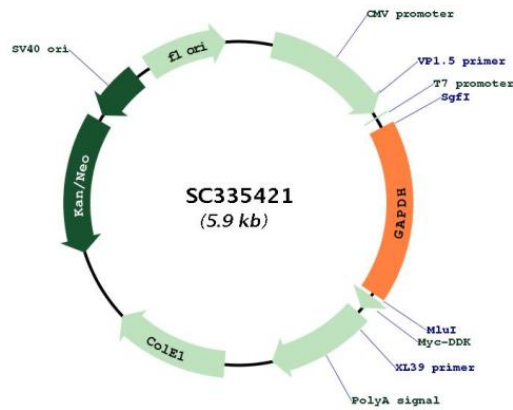
Product Type:	Expression Plasmids
Product Name:	GAPDH (NM_001289746) Human Untagged Clone
Tag:	Tag Free
Symbol:	GAPDH
Synonyms:	G3PD; GAPD; HEL-S-162eP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC335421 representing NM_001289746. Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTT TAGTGAACCGTCAGAATTTTGT AATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCC GCGATCGCC
ATGGGGAAGGTGAAGTCGGAGTCAACGGATTTGGTCGTATTGGGCGCCTGGTCACCAGGGCTGCTTTT
AACTCTGGTAAAGTGGATATTGTTGCCATCAATGACCCCTTCATTGACCTCAACTACATGGTTTACATG
TTCCAATATGATTCCACCCATGGCAAATCCATGGCACCGTCAAGGCTGAGAACGGGAAGCTTGTCATC
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AAATATGATGACATCAAGAAGTGGTGAAGCAGGCGTCGGAGGGCCCCCTCAAGGCATCCTGGGCTAC
ACTGAGCACCAGGTGGTCTCTCTGACTTCAACAGCGACCCACTCCTCCACCTTTGACGCTGGGGCT
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AGGGTGGTGGACCTCATGGCCACATGGCCTCCAAGGATAA
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
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Restriction Sites: SgfI-MluI



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Plasmid Map:


ACCN: NM_001289746

Insert Size: 1008 bp

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).

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_001289746.1](#)

RefSeq Size: 1407 bp

RefSeq ORF: 1008 bp

Locus ID: 2597

UniProt ID: [P04406](#)

Cytogenetics: 12p13.31

Protein Families:	ES Cell Differentiation/IPS
Protein Pathways:	Alzheimer's disease, Glycolysis / Gluconeogenesis, Metabolic pathways
MW:	36.1 kDa
Gene Summary:	<p>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 <i>E. coli</i>, <i>P. aeruginosa</i>, and <i>C. albicans</i>. 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]</p> <p>Transcript Variant: This variant (4) differs in the 5' UTR, compared to variant 1. Variants 1, 3, and 4 encode the same isoform (1).</p>