

Product datasheet for RC237526

GAPDH (NM_001289745) Human Tagged ORF Clone

Product data:

OriGene Technologies, Inc.

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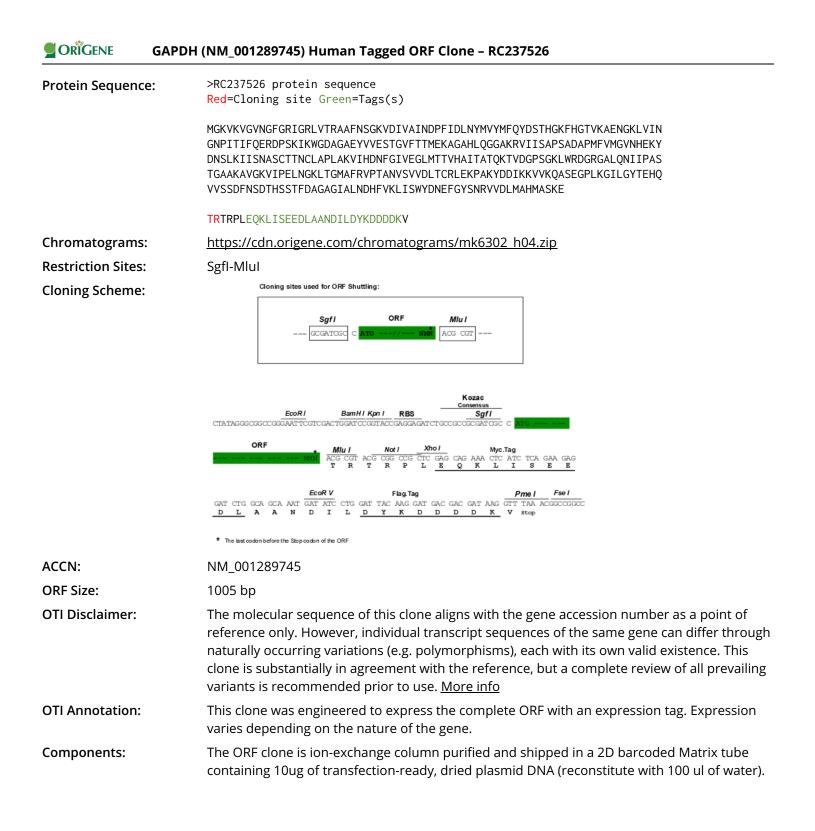
| Product Type: | Expression Plasmids |
|------------------------------|---|
| Product Name: | GAPDH (NM_001289745) Human Tagged ORF Clone |
| Tag: | Myc-DDK |
| Symbol: | GAPDH |
| Synonyms: | G3PD; GAPD; HEL-S-162eP |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |
| ORF Nucleotide Sequence: | <pre>>RC237526 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)</pre> |
| | TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCC <mark>GCGATCGC</mark> C |
| | |

ATGGGGAAGGTGAAGGTCGAAGGTCAACGGATTTGGTCGTATTGGGCGCCTGGTCACCAGGGCTGCTTTTA ACTCTGGTAAAGTGGATATTGTTGCCATCAATGACCCCTTCATTGACCTCAACTACATGGTTTACATGTT CCAATATGATTCCACCCATGGCAAATTCCATGGCACCGTCAAGGCTGAGAACGGGAAGCTTGTCATCAAT GGAAATCCCATCACCATCTTCCAGGAGCGAGATCCCTCCAAAATCAAGTGGGGCGATGCTGGCGCTGAGT ACGTCGTGGAGTCCACTGGCGTCTTCACCACCATGGAGAAGGCTGGGGCTCATTTGCAGGGGGGAGCCAA AAGGGTCATCATCTCTGCCCCCTCTGCTGATGCCCCCATGTTCGTCATGGGTGGAACCATGAGAAGTAT GACAACAGCCTCAAGATCATCAGCAATGCCTCCTGCACCACCAACTGCTTAGCACCCTGGCCAAGGTCA TCCATGACAACTTTGGTATCGTGGAAGGACTCATGACCACGGGGCTCTCCAGAACATCATCCCTGCCACCACAGAGC TGTGGATGGCCCCTCCGGGAAACTGTGGCGTGATGGCCGCGGGGCTCTCCAGAACATCATCCCTGCCTCT ACTGGCGCTGCCAAGGCTGTGGGCAAGGTCATCCCTGACCACGGCAAGCTCACTGGCATGGCCTTCC GTGTCCCCACTGCCAACGTGTCAGTGGGGCAGGGCCCCCTCAAGGGCAACCTGCCAACTGACCACG GTGGTCTCCTCTGACTGCAGGCGCGGGGCCCCCTCAAGGGCATCCTGGGCTACACTGACCAG GTGGTCTCCTCTGACTTCAACAGCGACACCCACTCCTCCACCTTTGGCGCAACACTGACCAG GTGGTCTCCTCTGACTTCAACAGCGACACCCACTCCTCCACCTTTGGCCACGGGCTGGCATTGCCCTCA ACGACCACTTTGTCAAGCCACTCATTCCTGGTATGACAACGAATTTGGCTACAGCGACACGGGTGGACCT CATGGCCCACTGGCCCCTCCAAGGAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAG**GTTTAA**



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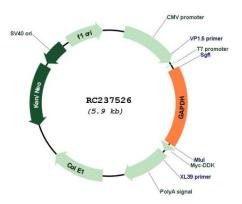
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| Reconstitution Method: | Centrifuge at 5,000xg for 5min. Carefully open the tube and add 100ul of sterile water to dissolve the DNA. Close the tube and incubate for 10 minutes at room temperature. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom. 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. |
|------------------------|--|
| Note: | Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required. |
| RefSeq: | <u>NM 001289745.3</u> |
| RefSeq Size: | 1513 bp |
| RefSeq ORF: | 1008 bp |
| Locus ID: | 2597 |
| UniProt ID: | <u>P04406</u> |
| Cytogenetics: | 12p13.31 |
| Protein Families: | ES Cell Differentiation/IPS |
| Protein Pathways: | Alzheimer's disease, Glycolysis / Gluconeogenesis, Metabolic pathways |
| MW: | 36.1 kDa |
| Gene 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] |

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Product images:



Circular map for RC237526

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