

Product datasheet for **RG205362**

GAPDHS (NM_014364) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GAPDHS (NM_014364) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	GAPDHS
Synonyms:	GAPD2; GAPDH-2; GAPDS; HEL-S-278; HSD-35
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG205362 representing NM_014364 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTCGAAGCGGACATCGTCTCACCAATGTCACCGTTGTCCAGTTGCTGCGACAGCCGTGCCCGGTGAC
CCAGAGCACCGCCCCACCTGAGCCTAAGGCTGAAGTAGAGCCCCAGCCACAACCAGAGCCACACCAGT
CAGGGAGGAAATAAGGCCACCACCGCCACCCTGCTCCTCACCCGCTACTCCTCCTAAGATGGT
TCTGTGGCCCGGAGCTGACTGTGGCATCAATGGATTTGGACGCATCGGTGCCTGGTCTGCGCGCT
GCATGGAGAAGGGTGTTAAGGTGGTGGTGTGAATGATCCATTATTGACCCGGAATACATGGTGTACAT
GTTAAGTATGACTCCACCCACGCGCATACAAGGGAAGTGTGAATTCAGGAATGGACAACCTGGTCGTG
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CCTACGTGGTGGAGTCCACAGGCGGTGTACTCTCCATACAGGCAGCTTCGGACCACATCTCTGCAGGTGC
TCAACGTGGTGCATCTCCGCGCCCTCACCGGATGCACCAATGTTGTCATGGGTGTCAATGAAAATGAC
TATAACCTGGCTCCATGAACATTGTGAGCAACGCGTCTGCACCACCAACTGTTTGGCTCCCCTCGCCA
AAGTCATCCACGAGCGATTTGGGATCGTGAAGGGTTGATGACCACAGTCCATTCCTACACGGCCACCCA
GAAGACAGTGGACGGCCATCAAGGAAGCCTGGCGAGATGGCGGGGTGCCACCAGAACATCATCCA
GCCTCCACTGGGCTGCGAAAGCTGTGACCAAGTCATCCAGAGCTCAAAGGGAAGCTGACAGGGATGG
CGTTCGGGTACCAACCCGATGTGTCTGTGCGTGGACCTGACCTGCCGCTCGCCAGCCTGCCCCCTA
CTCAGCCATCAAGGAGGCTGAAAAGCAGCAGCAAGGGGCCATGGCTGGCATCCTTGCCTACACCGAG
GATGAGGTGCTCTACGGACTTCTCGGTGATACCCACTCGTCCATCTTCGATGCTAAGCCGGCATTG
CGCTCAATGACAATTTTCGTGAAGCTCATTTTCATGGTACGACAACGAATATGGCTACAGTACCGGGTGGT
CGACCTCCTCCGTACATGTTTCAGCCGAGACAAG

AGCGGACCGACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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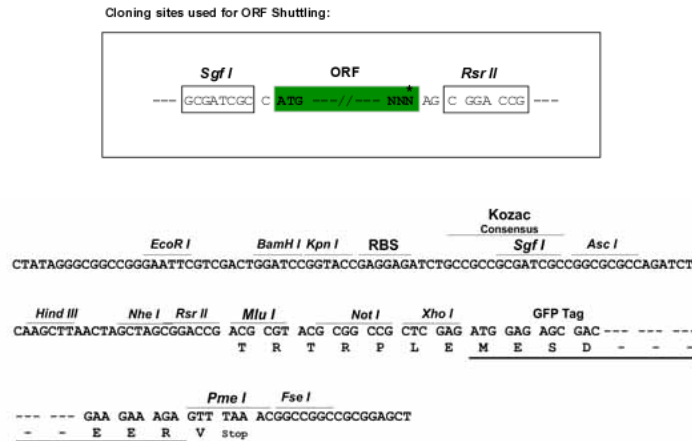
Protein Sequence: >RG205362 representing NM_014364
 Red=Cloning site Green=Tags(s)

MSKRDIVLTNVTVVQLLRQPCPVTRAPPPPEPKAEVEPQPQPEPTPVREEIKPPPPPLPPHPATPPPKMV
 SVARELTVGINGFGRIGRLVLRACMEKGVKVVAVNDPFIDPEYMYMFKYDSTHGRYKGSVEFRNGQLVV
 DNHEISVYQCKEPKQIPWRAVGSPIYVVESTGVYLSIQAASDHISAGAQRVVISAPSPDAMPFVMGVNEND
 YNPGSMNIVSNASCTTNCLAPLAKVIHERFGIVEGLMTTVHSYATQKTVDGPSRKAWRDGRGAHQNIIP
 ASTGAAKAVTKVPELKGKLTGMAFRVPTPDVSVVDLTCRLAQPAPYSAIKEAVKAAAKGPMAGILAYTE
 DEVVSTDFLGDTHSSIFDAKAGIALNDFVKLISWYDNEYGYSHRVVDLLRYMFSRDK

SGP^{TRRRLE} - GFP Tag - V

Restriction Sites: SgfI-RsrII

Cloning Scheme:



ACCN: NM_014364

ORF Size: 1224 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:

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_014364.5](#)

RefSeq Size: 1455 bp

RefSeq ORF: 1227 bp

Locus ID: 26330

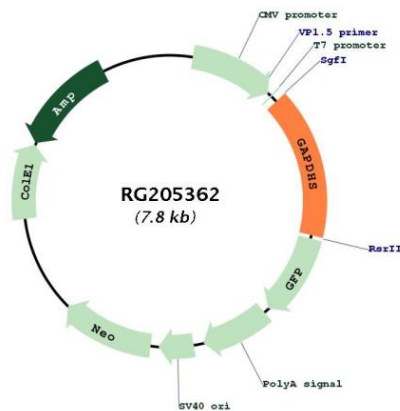
UniProt ID: [O14556](#)

Cytogenetics: 19q13.12

Protein Families: Druggable Genome

Gene Summary: This gene encodes a protein belonging to the glyceraldehyde-3-phosphate dehydrogenase family of enzymes that play an important role in carbohydrate metabolism. Like its somatic cell counterpart, this sperm-specific enzyme functions in a nicotinamide adenine dinucleotide-dependent manner to remove hydrogen and add phosphate to glyceraldehyde 3-phosphate to form 1,3-diphosphoglycerate. During spermiogenesis, this enzyme may play an important role in regulating the switch between different energy-producing pathways, and it is required for sperm motility and male fertility. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG205362