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Product datasheet for MG220603

Gapdhs (NM_008085) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Gapdhs (NM_008085) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Gapdhs
Synonyms:	Gapd-s; Gapds
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence:

>MG220603 representing NM_008085
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGTCGAGACGTGACGTGGTCCTTACCAATGTTACTGTTGTCCAGCTACGGCGGGACCGATGCCCATGCC
CATGCCCATGTCCATGCCCATGCCCTGTGATCAGACCACCTCCACCCAAGGTTGAGGATCCACCACCCAC
GGTTGAAGAACAGCCACCGCCACCGCCGCCGCCACCTCCACCTCCACCACCACCTCCTCCTCCTCCTCCA
CCCCAGATAGAGCCAGACAAGTTTGAAGAGGCTCCCCCTCCCCCTCCCCCTCCTCCTCCTCCTCCCCCTC
CCCCTCCCCCACCACTCCAAAAGCCAGCTAGAGAGCTGACAGTGGGTATCAATGGATTTGGACGCATTGG
TCGTCTGGTGCTGCGAGTCTGCATGGAGAAGGGCATTAGGGTGGTAGCAGTGAATGACCCATTCATTGAT
CCAGAATACATGGTTTACATGTTCAAATATGACTCCACACATGGTAGATACAAAGGAAACGTGGAACATA
AGAATGGACAACTAGTTGTGGACAACCTTGAGATCAACACGTACCAGTGCAAAGACCCTAAAGAAATCCC
CTGGAGCTCTATAGGGAATCCCTACGTGGTGGAGTGTACAGGCGTCTATCTGTCCATCGAGGCAGCTTCG
GCACATATTTCATCTGGTGCCAGGCGTGTGGTGGTCACTGCACCCTCCCCCGATGCACCCATGTTTGTCA
TGGGAGTGAACGAGAAGGACTATAACCCTGGCTCTATGACCATTGTCAGCAATGCATCCTGTACCACCAA
CTGCCTGGCTCCTCTCGCCAAGGTTATTCATGAAAACTTCGGGATCGTGGAAGGGCTAATGACCACAGTC
CATTCCTACACAGCCACTCAGAAGACAGTGGATGGGCCATCAAAGAAGGACTGGCGAGGTGGCCGCGGCG
CTCACCAAAACATCATCCCATCGTCCACTGGGGCTGCCAAGGCTGTAGGCAAAGTCATCCCAGAGCTCAA
AGGGAAGCTAACAGGAATGGCATTCCGGGTGCCAACCCCAAACGTGTCAGTTGTGGACCTGACCTGCCGC
CTGGCCAAGCCTGCTTCTTACTCGGCTATCACGGAGGCTGTGAAAGCTGCAGCCAAGGGACCTTTGGCTG
GCATCCTTGCTTACACAGAGGACCAGGTGGTCTCCACGGACTTTAACGGCAATCCCCATTCTTCCATCTT
TGATGCTAAGGCTGGAATTGCCCTCAATGACAACTTCGTGAAGCTTGTTGCCTGGTACGACAACGAATAT
GGCTACAGTAACCGAGTGGTCGACCTCCTCCGCTACATGTTTAGCCGAGAGAAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

View online »

Protein Sequence:

>MG220603 representing NM_008085
Red=Cloning site Green=Tags(s)

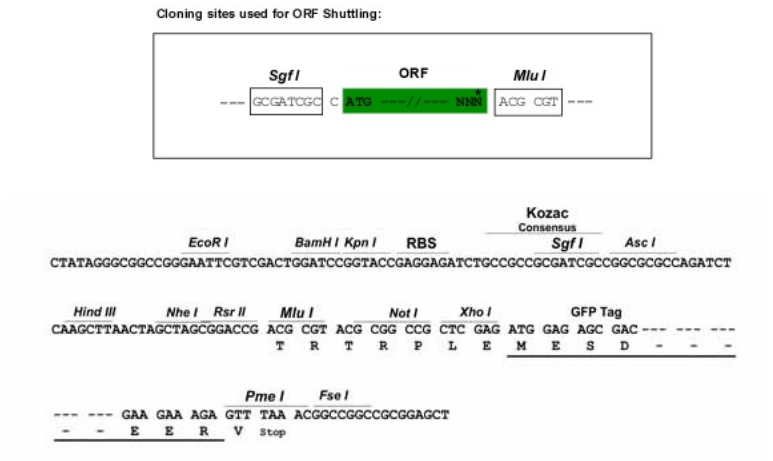
MSRRDVVLTNVTVVQLRRDRCPCPCPCPCPCPVIRPPPPKVEDPPPTVEEQPPPPPPPPPPPPPPPPPP
PQIEPDKFEEAPPPPPPPPPPPPPPPPPLQKPARELTVGINGFGRIGRLVLRVCMEKGIRVVAVNDPFID
PEYMVYMFKYDSTHGRYKGNVEHKNGQLVVDNLEINTYQCKDPKEIPWSSIGNPYVVECTGVYLSIEAAS
AHISSGARRVVVTAPSPDAPMFVMGVNEKDYNPGSMTIVSNASCTTNCLAPLAKVIHENFGIVEGLMTTV
HSYTATQKTVDGPSKKDWRGGRGAHQNIIPSSTGAAKAVGKVIPELKGKLTGMAFRVPTPNVSVVDLTCR
LAKPASYSAITEAVKAAAKGPLAGILAYTEDQVVSTDFNGNPHSSIFDAKAGIALNDNFVKLVAWYDNEY
GYSNRVVDLLRYMFSREK

TRTRPLE – GFP Tag – V

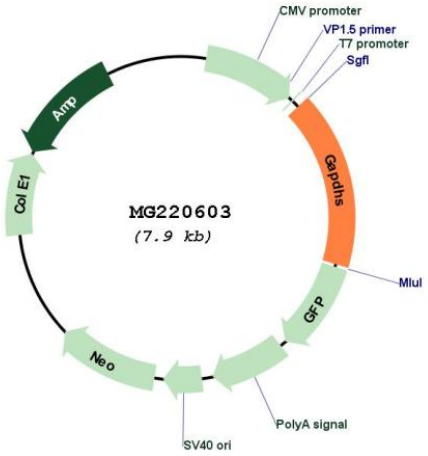
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN:

NM_008085

ORF Size:	1314 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_008085.2, NP_032111.1
RefSeq Size:	1317 bp
RefSeq ORF:	1317 bp
Locus ID:	14447
UniProt ID:	Q64467
Cytogenetics:	7 B1
Gene Summary:	May play an important role in regulating the switch between different pathways for energy production during spermiogenesis and in the spermatozoon. Required for sperm motility and male fertility.[UniProtKB/Swiss-Prot Function]