

Product datasheet for **RG217597**

FAHD1 (NM_031208) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	FAHD1 (NM_031208) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	FAHD1
Synonyms:	C16orf36; YISKL
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG217597 representing NM_031208 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGAATCATGGCAGCATCCAGGCCATTGTCCCCTTCTGGGAGTGGGAAAGAACATCGTCTGCGTGG
GGAGGAACTACGCGGACCACGTCAGGGAGATGCGCAGCGCGGTGTTGAGCGAGCCCGTGTCTCCTGAA
GCCGTCCACGGCCTACGCGCCCGAGGGCTCGCCATCCTCATGCCCGGTACACTCGCAACCTGCACCAC
GAGCTGGAGCTGGGCGTGGTATGGGCAAGCGCTGCCCGCAGTCCCGAGGCTGCGGCCATGGACTACG
TGGGCGGCTATGCCCTGTGCCTGGATATGACCGCCCGGACGTGCAGGACGAGTGAAGAAGAAGGGGCT
GCCTGGACTCTGGCGAAGAGCTTCACGGCGTCTGCCCGGTACGCGGTTTCGTGCCAAGGAGAAGATC
CCTGACCCTCACAAAGCTGAAGCTCTGGCTCAAGGTCAACGGCGAACTCAGACAGGAGGGTGAACATCCT
CCATGATTTTTTCCATCCCCTACATCATCAGCTATGTTTCTAAGATCATAACCTTGAAGAAGGAGATAT
TATCTTGACTGGGACGCCAAAGGGAGTTGGACCGGTTAAAGAAAACGATGAGATCGAGGCTGGCATAAC
GGGCTGGTCAGTATGACATTTAAAGTGGAAAAGCCAGAATAT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG217597 representing NM_031208
Red=Cloning site Green=Tags(s)

MGIMAASRPLSRFEWGWKNIVCVGRNYADHVREMRSAVLSEPVLFKLPSTAYAPEGSPILMPAYTRNLHH
 ELELGVVMGKRCRAVPEAAAMDYVGGYALCLDMTARDVQDECKKGLPWLAKSFATSCPVSFAFVPKEKI
 PDPHKLKLVKLVNGELRQEGETSSMIFSIPIYIISYVSKIITLEEGDIILGTGPKGVGPKENDEIEAGIH
 GLVSMTFKVEKPEY

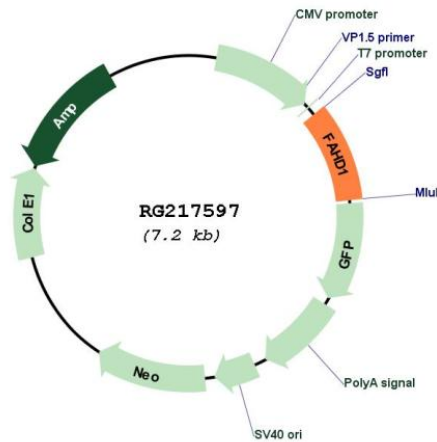
TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_031208

ORF Size: 672 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:	<ol style="list-style-type: none">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_031208.3 , NP_112485.1
RefSeq Size:	1706 bp
RefSeq ORF:	675 bp
Locus ID:	81889
UniProt ID:	Q6P587
Cytogenetics:	16p13.3
Gene Summary:	Probable mitochondrial acylpyruvase which is able to hydrolyze acetylpyruvate and fumarylpyruvate in vitro (PubMed:15551868, PubMed:21878618). Also has oxaloacetate decarboxylase activity (PubMed:25575590).[UniProtKB/Swiss-Prot Function]