

Product datasheet for **RG204654**

FAR2 (NM_018099) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	FAR2
Synonyms:	HEL-S-81; MLSTD1; SDR10E2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



ORF Nucleotide Sequence: >RG204654 representing NM_018099
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGTCCACAATTGCAGCTTTCTATGGCGGCAAGTCCATTCTCATCACGGGGGCCACAGGCTTTCTGGCA
 AAGTGCTAATGGAGAAGCTGTTTCGCACCAGCCAGACCTGAAAGTCATTACATCCTTGTGAGGCCCAA
 GGCTGGCCAGACACTGCAGCAGAGGGTTTTCCAGATCTAGACAGTAAGCTATTTGAGAAAGTCAAAGAA
 GTTTGTCCAAATGTGCATGAGAAGATCAGAGCTATTTATGCAGATCTCAATCAGAATGACTTTGCCATCA
 GCAAAGAGGACATGCAGGAGCTTCTCTCTGTACAAACATAATATTTACTGTGCAGCCACTGTACGCTT
 TGACGACACTCTCAGACATGCTGTGCAACTTAACGTCACTGCCACCCGGCAGCTCTTGCTTATGGCTAGT
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 ACTTATTGAAAGAGGATATGGCTGGGATCCCAAAGCAAAGCAACGCTTAAAAAGGCTCCGAAATATTCA
 CTACCTCTTTAATACTGCCCTCTTCTTATCGCTGGCGCTTCTCATTGCAAGATCTCAGATGGCTCGG
 AATGTCTGGTTCTTCATTGTAAGCTTCTGTTATAAATTCCTCTCTACTTTAGAGCATCCAGCACGCTCA
 AAGTT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

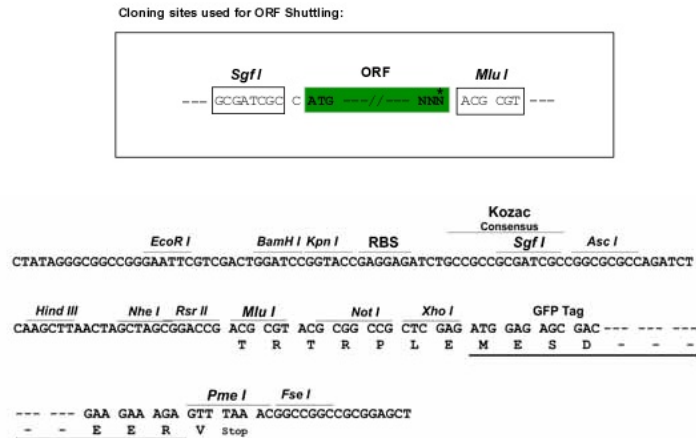
Protein Sequence: >RG204654 representing NM_018099
 Red=Cloning site Green=Tags(s)

MSTIAAFYGGKSILITGATGFLGKVLMEKLFRTSPDLKVIYILVRPKAGQTLQQRVFQILDSKLFKEVKE
 VCPNVHEKIRAIYADLNQNDFAISKEDMQELLSTNIIHFCAATVRFDDTLRHAVQLNVTATRQLLLMAS
 QMPKLEAFIHIHISTAYSNCLKHIDEVIYPCPVEPKIIDSLEWLDIAIIDEITPKLIRDWPNIYTYTKAL
 GEMVVQQESRNLNIAIIRPSIVGATWQEPFGWVDNINGPNGIIATGKGLRAIKATPMADVADVIPVDT
 VVNLMLAVGWYTAVHRPKSTLVYHITSGNMNPNWHKMGVQVLATFEKIPFERPFRPNANFTSNSFTSQ
 YWNAVSHRAPAIIYDCYLRLTGRKPRMTKLMNRLRLTVSMLEYFINRSWEWSTYNTEMLMSELSPEDQRV
 FNFDVRQLNWLEYIENYVLGVKKYLLKEDMAGIPKAKQRLKRLRNHYLFNTALFLIAWRLLIARSQMAR
 NVWFFIVSFCYKFLSYFRASSTLKV

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_018099

ORF Size: 1545 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_018099.3](#), [NP_060569.3](#)

RefSeq Size: 2235 bp

RefSeq ORF: 1548 bp

Locus ID: 55711

UniProt ID: [Q96K12](#)

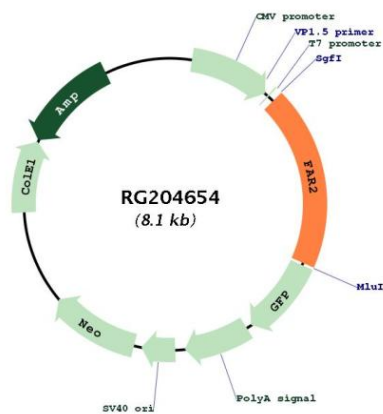
Cytogenetics: 12p11.22

Domains: Sterile

Protein Families: Transmembrane

Gene Summary: This gene belongs to the short chain dehydrogenase/reductase superfamily. It encodes a reductase enzyme involved in the first step of wax biosynthesis wherein fatty acids are converted to fatty alcohols. The encoded peroxisomal protein utilizes saturated fatty acids of 16 or 18 carbons as preferred substrates. Alternatively spliced transcript variants have been observed for this gene. Related pseudogenes have been identified on chromosomes 2, 14 and 22. [provided by RefSeq, Nov 2012]

Product images:



Circular map for RG204654