

Product datasheet for **RG234327**

FAR2 (NM_001271783) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	FAR2 (NM_001271783) Human Tagged ORF Clone
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)



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ORF Nucleotide Sequence:

>RG234327 representing NM_001271783
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTCCACAATTGCAGCTTTCTATGGCGGCAAGTCCATTCTCATCACGGGGGCCACAGGCTTTCTGGGCA
 AAGTGCTGATGGAGAAGCTGTTTCGCACCAGCCAGACCTGAAAGTCATTACATCCTTGTGAGGCCCAA
 GGCTGGCCAGACACTGCAGCAGAGGGTTTTCCAGATCCTAGACAGTAAGCTATTTGAGAAAGTCAAAGAA
 GTTTGTCCAAATGTGCATGAGAAGATCAGAGCTATTTATGCAGATCTCAATCAGAATGACTTTGCCATCA
 GCAAAGAGGACATGCAGGAGCTTCTCTCTGTACAAACATAATTTTCACTGTGCAGCCACTGTACGCTT
 TGACGACACTCTCAGACATGCTGTGCAACTTAACGTCACTGCCACCCGGCAGCTCTTGCTTATGGCTAGT
 CAGATGCCAAAGCTGGAAGCCTTTATACATATCTCTACTGCCTATTCAAATTGAACCTGAAGCACATCG
 ATGAAGTTATCTATCCGTGCCCTGTGGAGCCAAAAAATCATTGATTCCCTTGAGTGGTTAGACGATGC
 TATTATTGACGAGATTACACCCAAGCTGATCAGAGATTGGCCCAATTTTATACCTACACCAAGGCCTTG
 GGAGAAATGGTGGTGCAGCAAGAGAGCAGGAACCTGAACATTGCCATCATAAGGCCCTCCATTGTGGGAG
 CAACTTGGCAGGAGCCTTTCCAGGTTGGTTGATAATATAAATGGACCTAATGGAATCATTATTGCGAC
 TGGGAAAGGGTTTCTTCGGGCCATAAAAGCTACTCCAATGGCTGTGGCAGACGTAATTCCAGTTGATACA
 GTCGTCAATCTCATGCTAGCTGTAGGATGGTATACTGCAGTTCACAGACCTAAGTCAACATTAGTCTACC
 ACATTACATCTGGTAACATGAATCCCTGCAATTGGCACAAAATGGGAGTCCAAGTCTTGGCAACCTTTGA
 AAAATCCCATTTGAGAGACCTTTCAGGAGGCCAAATGCTAATTTTACCAGCAACAGCTTCACATCACAG
 TACTGGAATGCGGTCAGCCACCGGGCCCTGCCATTATCTATGACTGCTATCTGCGGCTCACTGGAAGGA
 AGCCCAGGATGACAAAGCTCATGAATCGGCTTTTAAGAACTGTTCCATGTTGGAGTATTCATCAACCG
 GAGTTGGGAATGGAGCAGTACAATAACAGAAATGCTGATGTCTGAGCTGAGTCCTGAAGACCAGAGAGTA
 TTCAACTTTGACGTGCGCCAGTTGAACTGGTTGGAATACATTGAAAATTATGTTTGGGAGTTAAAAAT
 ACTTATTGAAAGAGGATATGGCTGGGATCCCAAAAGCAAAGCAACGCTTAAAAAGGCTCCGAAATATTCA
 CTACCTCTTTAATACTGCCCTCTTCCTTATCGCCTGGCGCCTTCTCATTGCAAGATCTCAGATGGCTCGG
 AATGTCTGGTTCTTCATTGTAAGCTTCTGTTATAAATTCCTCTCCTACTTTAGAGCATCCAGCACGCTCA
 AAGTT

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

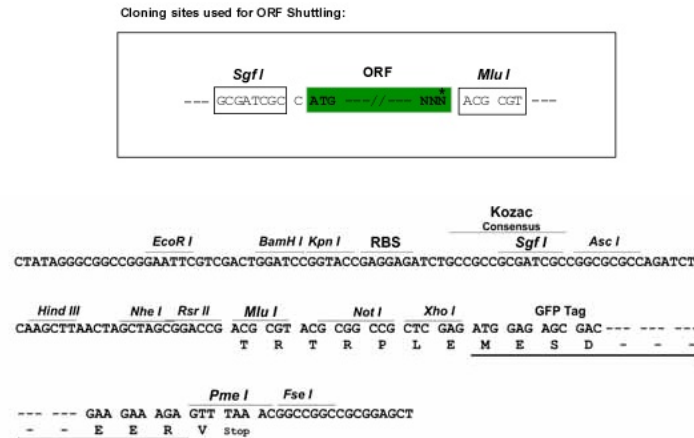
>RG234327 representing NM_001271783
 Red=Cloning site Green=Tags(s)

MSTIAAFYGGKSILITGATGFLGKVLMEKLFRTSPDLKVIYILVRPKAGQTLQQRVFQILDSKLFKEVKE
 VCPNVHEKIRAIYADLNQNDFAISKEDMQELL SCTNII FHCAATVRFDDTLRHAVQLNVTATRQLLLMAS
 QMPKLEAFIHISTAYSNCNLKHIDEVIYPCPVEPKKIIDSLEWLDIAIIDEITPKLIRDWPNIYTYTKAL
 GEMVVQQESRNLNIAIIRPSIVGATWQEPFPGWVDNINGPNGIIATGKGLRAIKATPMAVADVIPVDT
 VVNLMLAVGWYTAVHRPKSTLVYHITSGNMNPNWHKMGVQVLATFEKIPFERPFRRPNANFTSNSFTSQ
 YWNAVSHRAPAIYDCYLRLTGRKPRMTKLMNRLRTVSMLEYFINRSWEWSTYNTEMLMSELSPEDQRV
 FNFDVRQLNWLEYIENYVLGVKKYLLKEDMAGIPKAKQRLKRLRNHYLFNTALFLIAWRLLIARSQMAR
 NVWFFIVSFCYKFLSYFRASSTLKV

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_001271783

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.

RefSeq: [NM_001271783.2](#)

RefSeq Size: 3838 bp

RefSeq ORF: 1548 bp

Locus ID: 55711

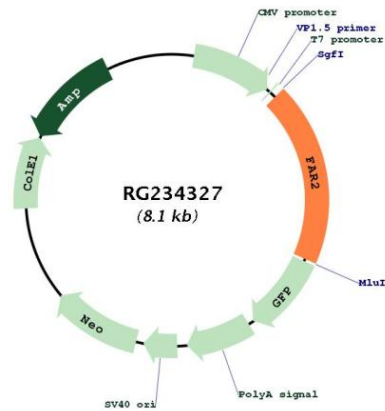
UniProt ID: [Q96K12](#)

Cytogenetics: 12p11.22

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 RG234327