

## Product datasheet for **RG234039**

### **FAR2 (NM\_001271784) Human Tagged ORF Clone**

#### Product data:

|                           |                                                                                |
|---------------------------|--------------------------------------------------------------------------------|
| Product Type:             | Expression Plasmids                                                            |
| Product Name:             | FAR2 (NM_001271784) 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)                                                         |
| ORF Nucleotide Sequence:  | >RG234039 representing NM_001271784<br>Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGCAGGAGCTTCTCTCCTGTACAAACATAATATTTCACTGTGCAGCCACTGTACGCTTTGACGACACTC  
 TCAGACATGCTGTGCACTTAACGTCACTGCCACCCGGCAGCTCTTGCTTATGGCTAGTCAGATGCCAA  
 GCTGGAAGCCTTTATACATATCTCTACTGCCTATTCAAATTGTAACCTGAAGCACATCGATGAAGTTATC  
 TATCCGTGCCCTGTGGAGCCAAAAAATCATTGATTCCCTTGAGTGGTTAGACGATGCTATTATTGACG  
 AGATTACACCAAGCTGATCAGAGATTGGCCCAATATTTATACCTACACCAAGGCCTTGGGAGAAATGGT  
 GGTGCAGCAAGAGAGCAGGAACCTGAACATTGCCATCATAAGGCCCTCCATTGTGGGAGCAACTGGCAG  
 GAGCCTTTCCAGGTTGGGTTGATAATATAAATGGACCTAATGGAATCATTATTGCGACTGGGAAAGGGT  
 TTCTTCGGGCCATAAAAGCTACTCCAATGGCTGTGGCAGACGTAATCCAGTTGATACAGTCGTCAATCT  
 CATGCTAGCTGTAGGATGGTATACTGCAGTTCACAGACCTAAGTCAACATTAGTCTACCACATTACATCT  
 GGTAACATGAATCCCTGCAATTGGCACAAAATGGGAGTCCAAGTCTTGGCAACCTTTGAAAAATCCCAT  
 TTGAGAGACCTTTCAGGAGGCCAAATGCTAATTTACCAGCAACAGCTTCACATCACAGTACTGGAATGC  
 GGTCAGCCACCGGGCCCTGCCATTATCTATGACTGCTATCTGCGGCTCACTGGAAGGAAGCCAGGATG  
 ACAAAGCTCATGAATCGGCTTTTAAGAACTGTTCCATGTTGGAGTATTTCAACCCGAGTTGGGAAT  
 GGAGCACGTACAATACAGAAATGCTGATGTCTGAGCTGAGTCTGAAGACCAGAGAGTATTCAACTTTGA  
 CGTGCGCCAGTTGAAGTGGTTGGAATACATTGAAAATTATGTTTTGGGAGTTAAAAAATACTTATTGAAA  
 GAGGATATGGCTGGGATCCCAAAAGCAAAGCAACGCTTAAAAAGGCTCCGAAATATTTCACTACCTCTTTA  
 ATACTGCCCTCTTCCTTATCGCCTGGCGCCTTCTCATTGCAAGATCTCAGATGGCTCGGAATGTCTGGTT  
 CTTCAATTGAAGCTTCTGTTATAAATTCCTCTCCTACTTTAGAGCATCCAGCACGCTCAAAGTT

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG234039 representing NM\_001271784  
 Red=Cloning site Green=Tags(s)

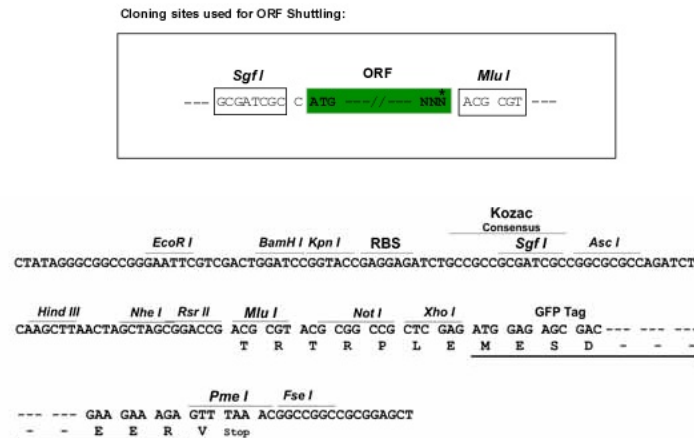
MQELLSTNIIIFHCAATVRFDDTLRHAVQLNVTATRQLLLMASQMPKLEAFIHISTAYSNCNLKHIDEVI  
 YPCPVEPKKIIDSLEWLDDAIIDEITPKLIRDWPNIIYTYTKALGEMVVQQESRNLNIAIIRPSIVGATWQ  
 EPFPGWVDNINGPNGIITATGKFLRAIKATPMADVIPDVTNNMLAVGWYTAHVRPKSTLVYHITS  
 GNMNPNWHKMGVQVLATFEKIPFERPFRPNANFTSNSFTSQYWNVSHRAPAIYDCYLRLTGRKPRM  
 TKLMNRLRLTVSMLEYFINRSWEWSTYNTMLMSELSPEDQRFVNFDFRQLNWLLEYIENYVLGVKKYLLK  
 EDMAGIPKAKQRLKRLRNIIHYLFNTALFLIAWRLLIARSQMARNVWFFIVSFCYKFLSYFRASSTLKV

TRTRPLE – GFP Tag – V

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_001271784

**ORF Size:** 1254 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\\_001271784.2](#)

**RefSeq Size:** 3478 bp

**RefSeq ORF:** 1257 bp

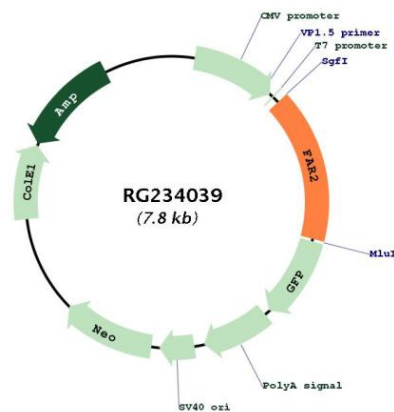
**Locus ID:** 55711

**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 RG234039