

Product datasheet for **SC113780**

FAR2 (NM_018099) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	FAR2 (NM_018099) Human Untagged Clone
Tag:	Tag Free
Symbol:	FAR2
Synonyms:	HEL-S-81; MLSTD1; SDR10E2
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF within SC113780 sequence for NM_018099 edited (data generated by NextGen Sequencing)

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ATGTCCACAATTGCAGCTTTCTATGGCGGCAAGTCCATTCTCATCACGGGGGCCACAGGC
TTTCTGGGCAAAGTGCTGATGGAGAAGCTGTTTCGCACCAGCCCAGACCTGAAAGTCATT
TACATCCTTGTGAGGCCAAGGCTGGCCAGACACTGCAGCAGAGGGTTTTCCAGATCCTA
GACAGTAAGCTATTTGAGAAAAGTCAAAGAAGTTTGTCCAAATGTGCATGAGAAGATCAGA
GCTATTTATGCAGATCTCAATCAGAATGACTTTGCCATCAGCAAAGAGGACATGCAGGAG
CTTCTCTCCTGTACAAACATAATATTTCACTGTGCAGCCACTGTACGCTTTGACGACACT
CTCAGACATGCTGTGCAACTTAACGTCACTGCCACCCGGCAGCTCTTGCTTATGGCTAGT
CAGATGCCAAAGCTGGAAGCCTTTATACATATCTCTACTGCCTATTCAAATTGTAACTG
AAGCACATCGATGAAGTTATCTATCCGTGCCCTGTGGAGCCAAAAAATCATTGATTCC
CTTGAGTGGTTAGACGATGCTATTATTGACGAGATTACACCCAAGCTGATCAGAGATTGG
CCCAATATTTATACCTACACCAAGGCCTTGGGAGAAATGGTGGTGCAGCAAGAGAGCAGG
AACCTGAACATTGCCATCATAAGGCCCTCCATTGTGGGAGCAACTTGGCAGGAGCCTTTC
CCAGGTTGGGTTGATAATATAAATGGACCTAATGGAATCATTATTGCGACTGGGAAAGGG
TTTCTTGGGCCATAAAAGCTACTCCAATGGCTGTGGCAGACGTAATTCCAGTTGATACA
GTCGTCATCTCATGCTAGCTGTAGGATGGTATACTGCAGTTCACAGACCTAAGTCAACA
TTAGTCTACCACATTACATCTGGTAACATGAATCCCTGCAATTGGCACAAAATGGGAGTC
CAAGTCTTGGCAACCTTTGAAAAATCCCATTGAGAGACCTTTCAGGAGGCCAAATGCT
AATTTTACCAGCAACAGCTTACATCACAGTACTGGAATGCGGTGAGCCACCGGGCCCT
GCCATTATCTATGACTGCTATCTGCGGCTCACTGGAAGGAAGCCAGGATGACAAAGCTC
ATGAATCGGCTTTTAAGAACTGTTCCATGTTGGAGTATTTTCATCAACCGGAGTTGGGAA
TGGAGCACGTACAATACAGAAATGCTGATGTCTGAGCTGAGTCTGAAGACCAGAGAGTA
TTCAACTTTGACGTGCGCCAGTTGAACTGGTTGGAATACATTGAAAATTATGTTTTGGGA
GTTAAAAAATACTTATTGAAAGAGGATATGGCTGGGATCCCAAAAGCAAAGCAACGCTTA
AAAAGGCTCCGAAATATTCACCTCTTTAATACTGCCCTCTTCCTTATCGCCTGGCGC
CTTCTCATTGCAAGATCTCAGATGGCTCGGAATGTCTGGTTCTTCATTGTAAGCTTCTGT
TATAAATTCCTCTCCTACTTTAGAGCATCCAGCACGCTCAAAGTTTAA
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Clone variation with respect to NM_018099.3
78 a=>g

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_018099 unedited

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ACATTTGTATACGACTCCTATAGGGCGGCCGGAATTCGCACGAGGGTTTCCTTGTGGCT
GGAGCGCTTCCCGTAGCCTCGGGGAAGGAGCAGGATTTAGAGGACCACTAGTTGGACCCC
ATCCTCGTGCTGGAGGAACAGGAACCTCTTTCAGGAGCTATAAAAGAAAGGGAGGAATCA
TGTCCACAATTGCAGCTTTCTATGGCGGCAAGTCCATTCTCATCACGGGGGCCACAGGCT
TTCTGGGCAAAGTGCTGATGGAGAAGCTGTTTCGCACCAGCCCAGACCTGAAAGTCATTT
ACATCCTTGTGAGGCCCAAGGCTGGCCAGACACTGCAGCAGAGGGTTTTCCAGATCCTAG
ACAGTAAGCTATTTGAGAAAAGTCAAAGAAGTTTGTCCAAATGTGCATGAGAAGATCAGAG
CTATTTATGCAGATCTCAATCAGAATGACTTTGCCATCAGCAAAGAGGACATGCAGGAGC
TTCTCTCCTGTACAAACATAATATTTCACTGTGCAGCCACTGTACGCTTTGACGACACTC
TCAGACATGCTGTGCAACTTAACGTCACTGCCACCCGGCAGCTCTTGCTTATGGCTAGTC
AGATGCCAAAGCTGGAAGCCTTTATACATATCTCTACTGCCTATTCAAATTGTAACCTGA
AGCACATCGATGAAGTTATCTATCCGTGCCCTGTGGAGCCAAAAAATCATTGATTCCC
TTGAGTGGTTAGACGATGCTATTATTGACGAGATTACACCCAAGCTGATCAGAGATTGGC
CAATATTTATACCTACACCCAAGCCTTTGGAGAAAGGTGGTGCCAGCAGAGAGCAGGAAC
CCTGACATTGCCATCATAAGGCCCTCCATTGTGGGGAGCACTGGCCAGAGCCTTTCCAGN
TGGNTTGATAATATAATGGACCTATGGAATCATTATGCGACTGGAAGGGTTTCTTCGG
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3' Read Nucleotide Sequence:	>OriGene 3' read for NM_018099 unedited <pre> CCCGGCCCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTAAATTTAATTCAAATTTTT ATTTAATCAAAAGTCAAAATGTGAATACTTGATTAGTGGAATTATTGAATTGGTAAACA TACAATCAAAAGTGAATTCCTAGAACTATTATTATGTCTTAATCCAATCCCACTGAGCTA TATCTTGATTTTCATTTTTATCATGTCTATAGCTTGATCTTAATTGATATAACTCAAA AGTACCATATAGACATCTCAAACTAAAGATCACCAGGTGCTTAGTTTCAGAGCTGGGTTG TCTGCTATGGAAAATATTTCCAGAATTTAGATGAGATTGGGAAAGATATTGCCAGAAG AGTTCCTCCAAAATGCCCTTTATATAGAGCTCAGGAGAATCTGGAATAATACTGGGCTAG ATACTGCCCTAAGGCCTGTACACTTAACTACCACGATGTGCCTTTCTGAATATTACCC AATTACTCCAGGAAGTGAGCATAAATAAAGTCCATTCTTTATTAACATTTTATGCCTA TGCCATTTTCACTAGTTATGCGGTGACTAATTTTAGTTGTTAGGCCCAAGTACTATA TTTGAATAATATCCATGTTTTAACATGAAGAAATGCTGCAATCCAACATGACTCATC TCTCAAATTGAGGAAAGTTGGGTGTACAGTTACATTATTATTACTATAGGAATTGGAGAT ATGTATAGNTTTCATTAGTTTGTATATACACAAATTTTTAGAAACAAACCTATTTCTAA CTTAGATCCCTTATGAGGCTATCACTNTCTGCTGNGNGTTGACANTAACATTGTGCATGG ATGACAGATCTATAATCCTTGTGATACATAATGTATCTCCCACTTATACAGAACTAAGCT CGTNTAAGTCATTGGAATTTGGTTGCCATGCAAGACA </pre>
Restriction Sites:	NotI-NotI
ACCN:	NM_018099
Insert Size:	3570 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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_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]

Transcript Variant: This variant (2) differs in the 5' UTR compared to variant 1. Both variants 1 and 2 encode the same isoform (1). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.