

## Product datasheet for SC125654

### FAM54A (MTRF2) (NM\_138419) Human Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** FAM54A (MTRF2) (NM\_138419) Human Untagged Clone  
**Tag:** Tag Free  
**Symbol:** FAM54A  
**Synonyms:** DUFD1; FAM54A  
**Mammalian Cell Selection:** None  
**Vector:** pCMV6-XL5  
**E. coli Selection:** Ampicillin (100 ug/mL)

**Fully Sequenced ORF:** >OriGene sequence for NM\_138419 edited  
GCAGTCCGGTCTAGGGACTAGCAGGCACCAAGAACTGATAATGTTCCCTTTGAATTGGC  
TTCTGTATTTGCTTCATCAATGTCTCTCATACTGAATATCTTAAGAGAGATGCTGGAATA  
TTTTGGCGTTCCGTAGAACAGGTTTTGCTGATTTGGGAAAATAAAGACTATGGATCAAC  
TAGGAGTATTGTTTCGTATTATTGGGAAAATGCTTCCACTGGAACCTTGTGGAAGACCTAA  
TTTTGAGTTGATCCCGCTCTTGAACCTCTGTAGACTCTGATAAATTGTGGATCTATGGTTCC  
ATCTTTTGCTGATATTTTGTATGTGGCAAATGATGAAGAAGCCAGTTATCTCAGATTTTCG  
AAATAGTATATGGAAAATGAAGAAGAGAAAAGTGGAAATTTTTCATCCTTTGCGACTAGT  
TCGGGATCCACTGTCACCTGCTGTAAGACAGAAAGAACTGTGAAAAATGACCTGCCTGT  
AAATGAAGCTGCAATTAGAAAAATAGCTGCCCTTGAAAAATGAGCTGACTTTTCTCGCTC  
TCAGATTGCAGCAATTGTGAAAATGCAGGAACTGAAAAATAGTACAAATTCTAGTTCCTT  
TGGCTTGAGTGACGAGCGCATTAGTTTGGGTGAGCTGTCATCATCGCGGGCTGCCATCT  
GAGTGTGGACCCAGATCAGCTTCCAGGTTCCAGTGCTTTCTCCTCCTCCTCCACCACT  
TCCTCCTCAGTTTTCATCTCTCCAGCCACCGTGTTTTCTCCCCTACAACCAGGATCTAA  
TAATATTTGTGACTCAGATAATCCAGCAACTGAAATGAGCAAACAGAACCCGGCTGCTAA  
TAAGACCAATTATAGTCATCATTCAAAAAGCCAGAGAAAATAAAGATATTCCAAACATGTT  
GGACGTTCTAAAGGATATGAATAAGGTTAAGCTTCGTGCAATTGAGCGGTACCTGGCGG  
TAGACCCATTCATAAGAGGAAAAGACAGAATTCACATTGGGATCCAGTTTCTTTAATATC  
TCATGCACCTTAAACAGAAATTTGCATTTCAAGAAGATGATTCCTTTTGAGAAAGAGAAATAG  
ATCTTGGGAATCTTCCCAATTTCTAGTCCAGAACTTCAAGGTTTGGACATCACATTTTC  
ACAGTCAGAAGGACAGCGAACTAAAGAAGAAATGGTCAACACAAAAGCTGTTGACCAAGG  
TATCAGCAACACAAGCCTTCTAAACTCAAGGATTTAAACTCAACTTAAGGTTGAGCTTTA  
AACTTCCAAAACCTTCTCCTGGATGATAAATTATTCTTAGAACTGATTTGGACTGTTAA  
AGGCTAAAAGTAGATGTATTTAAAGACTCTTCTTGACACATTTTGCTACACTTGCTATG  
TAAATATGTATGCCTGTCATTTTGTTCCTTTGTTCTTTTACGTTTATACTCTGTTCT  
TTCTGTACATAGAGCTTAAATAAACATTCTTTTGAIAAAAAAAAAAAAAAAAAAAAA



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<b>5' Read Nucleotide Sequence:</b>	>OriGene 5' read for NM_138419 unedited TATTTGTATACGACTCTCTATAGCGGACCGCAATCANATCTGGTACCGGTCCGGAATT CCCGGGATATCGTCGACCACCGGTCCGGCAGTCCGGTCTAGGGACTAGCAGGCACCAA GAAACTGATAATGTTCTTTGAATTGGCTTCTGTATTTGCTTCATCAATGTCTCTACATAC TGAATATCTTAAGAGAGATGCTGGAATATTTGGCGTTCCTGTAGAACAGGTTTTGCTGA TTTGGGAAAATAAAGACTATGGATCAACTAGGAGTATTGTTCTGTATTATTGGGAAAATGC TTCCACTGGAACCTTGTGCAAGACCTAATTTTGAGTTGATCCCGCTCTTGAACCTGTAG ACTCTGATAATTGTGGATCTATGGTTCCATCTTTTGTGATATTTGTATGTGGCAAATG ATGAAGAAGCCAGTTATCTCAGATTTTCAAATAGTATATGGAAAAATGAAGAAGAGAAAG TGGAAATTTTTTCATCCTTTGCGACTAGTTCGGGATCCACTGTCACCTGCTGTAAGACAGA AAGAACTGTGAAAAATGACCTGCCTGNTAATGAAGCTGCAATTAGAAAAATAGCTGCC TNTGAAATGAGCTGACTTTTCTTCGCTCTCAGATTTGCAGCATTGTGAAATGCANGAAC CTGAAAAATAGTACAAATCTAGTTCCTTTNGCTTGAGTGACGAGCGCCATTANTTTGGGT CAGCTGTCATCATCGCGGCTGCCCATCTGAGTGTGGACCCAGATCCAGCTCCANGTTCA GGCTTTCTNCTTCTNCTCCTCCACCACTTCTCTTAGTTTTTCATCTTTCCACCACCTG TTTTTCTCCCGTACCACCGGATCCAAAATATTTTGGACTCCAAAATCCCCACCTGAATG GCCAACAGAACCCGCTGGCAAATAAACCAATTTTGTCTCTCCACAAGCCCCAAAATAA AGATTT
<b>Restriction Sites:</b>	Please inquire
<b>ACCN:</b>	NM_138419
<b>OTI Disclaimer:</b>	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).
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<u><a href="#">NM_138419.2</a></u> , <u><a href="#">NP_612428.2</a></u>
<b>RefSeq Size:</b>	1524 bp
<b>RefSeq ORF:</b>	1158 bp
<b>Locus ID:</b>	113115
<b>UniProt ID:</b>	<u><a href="#">Q6P444</a></u>
<b>Cytogenetics:</b>	6q23.3

**Gene Summary:**

May play a role in mitochondrial aerobic respiration essentially in the testis. Can also promote mitochondrial fission (By similarity).[UniProtKB/Swiss-Prot Function]

Transcript Variant: This variant (2) uses an alternate splice site in the 5' UTR compared to variant 1. Both variants 1 and 2 encode the same protein (isoform a).