

## Product datasheet for **MC222431**

### Fam35a (NM\_029389) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Fam35a (NM_029389) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Fam35a
Synonyms:	3110001K24Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >MC222431 representing NM\_029389  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGAGTCAAGGATCACAAGTTCACATTTTTTTGGGTGCTCCAGTTGCTCCACTGAAAACGACAGTATCAC  
 AGGGAACAGCTTCTTAATGTCCACTGCCAACGCCTGGGAAAAAGTCCGACTCTTCTATAAACAGCATT  
 CTTGTATCTGAAGGCTGGAGATCAGGAGTTAAAAATCTGGAAGACTGTCAAGTCCCAAAGGTCTTGGC  
 CCTCCAGGCCTTCTAGTGGTGACGTTTTGACGACTTCTGTGAGGAGGTCTGCTCAGGTGGATGAGGACT  
 TAAACATTCTGCTTCCGAAGCACAGAGTGTGAAATCCCAGGTTAACCTGAGTGATGACTAGTGGACA  
 AATGTGTGGGCTTGGGGACGGAGTTCAGCATTTACCCGAAGAAGAAAAAGATCAAAGCTCAATGTAAA  
 AATAAGAAAATTACAGATGAGCAGTCTAAAAATCAGTCAGATCCCTGCGTTCGGAACCTCCAAGAGATT  
 TGTTTGCCTTAGACCTTAAGTGTGCAGCGAAAAGTGGATCTGGGCTGTTGTACTGAACAGATGAGTACAGG  
 GACAAAGCCAGAGCCGACAGGACATCGTAAAGACAGAGTCAGGAGAGCTTCTCTGACACACGGTGTGAG  
 CCACAGTCCGAGGGAGCAGTCAGGAAGGCCTCAGACCAGAGACTGTCTGCTGAAGCTGAATTTCTCAGCG  
 TACTGACCTCCAGCCAACGGGCTTTTCTAGCTCAAGGGAATGATAAAGGTGAGGACTGTATAAATAGAG  
 CACTGTAATAATGGAGGCAGAACCAACAGGAAGTCAGGGAGTCAGACGAACCTGAAGGGGATTTTAGTAA  
 CCTGGTGGAGATTTGAAGAAGAATCTGAAAATGAGCAAAGCCAAGTGTATTCCCTGGAACCTTTTAGTC  
 CTGTTTGTCTGAATCAGAAAGCAGTCACAGTCACATAAACCCCTGGAAAAATCTTGAAAACACAAGCTC  
 TCAAGAATTTTTCAGTAAAGAAAACCTGCCACCAATGAGTTGTGTAGCTCCCATCCAAGTACCGCT  
 AACAGGAGCTGGAGCTGTAAGATGATTTCCACCATTCTAAAGCTTTTCTGAAGTCCATCAGGTGTCCA  
 AGAAGCCAAGGATGGATTCTAATAAAGAGAGGCAGCCAAAGCAGTCCCCAGAGGGTCTGCTGAATT  
 AAAGGACAGTAAAAAAATATCATTAAATAAAAAATTTGTGATTCTAAAAATCAGAAGTATAAAGTCTTAGTC  
 ATGGTGCTAACCCATGTCATGTAAAGGAAATAACTATAAAATCTGGACCAAATCTGGTCTAAAGTGC  
 CATTAGCAACGATTGTAGTTATTGATCAGTCAGAAATTAAGAAGAGGGTGTCTGTGGAGGACTGCAGC  
 ATTTGGGGCACTTACAGTGTCTTGGCGATATAATTTTACTTACAGACGTTGTTCTTTATGAGGATCAG  
 TGGATTGGTGAGACAGTACTCCAATCAACATTTACAAGTCAGTTACTAAATCTTGGAAAGTTATTCATATG  
 TCCAGCCTGAAAAATATCCAATGTAATTGCCAATGTTATACTTCAGGACTTATTGACATATGTGTCTAC  
 AAAACATTCCTATCTCAAAGATCTGCCTCAGAGGCAGCCTCAGAAAATGAACACTGTAGAGTTTGTGGAG  
 TTGGAGCAGTTGCAGCCTGATATATTAGTCCATGCAGTACTCAGAGTAGTGGATGCTACTGTATTGACAG  
 AGGCATTATATAGTTATAGAGGACAGAAGCAAAGAAAAGTTGTGTTAACCGTGGAAACAGGCTCAAGGTCA  
 AACTATGTGCTTGTATTATGGGGTCTGGAGCAGCCTGGTATACTCAGCTTCAAAGGAAAAAAGATTCT  
 ATTTGGGAATTTAAGTACCTTTTTGTTACGCGAACAGCATACTAGAAAACCTTAGAATTACATACAACAC  
 TGTGGTCTTCTGTGAATGCCTATTTGATGATGACACAAGAGCAATTTCAATTTAAAAACAAAATTTCAAAA  
 AAATACATCCTCCTTTGTCAAGATATCAGACTTAGCGACTCACCTAGAGGATAAATATTCAGGAGTGGTT  
 CTGATTAAGCCAAGTTTCAGAGCTGGTGTCTCTGCTGCAGCAGCTCAGAAGATAGCTTTGAATGCTC  
 GCAGCACTCTGCAGAGCATCTTCTCCTCTTCCAGTATTGTGTATGCTGGCTGTGCACACTGTGGGGT  
 AGAACTAGAGACAGATGAGAACAGGATCTACAGACAGTGTCTGAGCTGCCTGCCATTTGTTGGAAAAAA  
 ATATTCTATAGGCCGGCTTTAATGACCATAGTTGATGGAAGATATAAATACTTGTGTCCATGTTGGGTCAA  
 AGATGATGGAGCAGATTCTTCTCAACATTTCTCCAGATTGCCTCAACAGAGTAATAGTGCCTTCTCAGA  
 GGTACCTACGGCATGGTCGCCTCAGACCTGCTCCATTCTTGTGGCTGTGAGTGTGAGCCTTGTGTG  
 CTGAAGATCCAGAGCCTTTTCGAGTTGGATGAGAACAGCTACCCACTGCAACAGGATTTCTCCCTACTCG  
 ATTTCTGCCCTGACTCACGTAAGCTGTGGAGCCCAGGACTTTCTCTAAGGGCAGAGGGCACAGGAGGCAT  
 TCCTGGGAAGGAGTGA

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI  
**ACCN:** NM\_029389

<b>Insert Size:</b>	2676 bp
<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>	<a href="#">NM_029389.2</a> , <a href="#">NP_083665.2</a>
<b>RefSeq Size:</b>	3463 bp
<b>RefSeq ORF:</b>	2676 bp
<b>Locus ID:</b>	75698
<b>UniProt ID:</b>	<a href="#">Q3UEN2</a>
<b>Cytogenetics:</b>	14 B
<b>Gene Summary:</b>	Component of the shieldin complex, which plays an important role in repair of DNA double-stranded breaks (DSBs). During G1 and S phase of the cell cycle, the complex functions downstream of TP53BP1 to promote non-homologous end joining (NHEJ) and suppress DNA end resection. Mediates various NHEJ-dependent processes including immunoglobulin class-switch recombination, and fusion of unprotected telomeres.[UniProtKB/Swiss-Prot Function]