

## Product datasheet for **MG217490**

### Fam129a (NM\_022018) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Fam129a (NM_022018) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Fam129a
Synonyms:	AI256368; AU019833; Niban
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>MG217490 representing NM\_022018  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGGCGGCTCAGCTTCCAGCCAGCTGGACGAGGGCAAGTGCGCCTACATCCGAGGGAAACTGAGGCTT  
 CTATCAAAAACCTCAGCCCTACTACAGCCGGCAGTATTCTGTAGCTTTCTGCAATCATGTGCGCAGCGA  
 GGTGGAGCAGCAAAGAGATTTAACGTCACAATTTCTGAAGACCAAGCCCCACTGGAACCAGGAACGGTT  
 TTGTATGAAGCTGAGCTCTCCAGTTTGTCTGAAGACATCAGGAAATGGAAAGACAGATACATTGTGATTA  
 AAAACGATTTTGTCTGTGGAAAGCTATGAGAGCAAAGAGGCCTATCAGAGAGGAGCTGTTCTAAAAGCAG  
 GATTCTTCCAGCCGGTGGCAAGGTGTTAACCTCAGAAGAGGAATATAGTCTTTATCTGATAAGCATTTC  
 CCAGACCCCACTGCTTCCAGCGAGAAGAACTCTCAGCCCTTTGTGCTCCTCCCTAAGGCATTCCAGTGT  
 ACCTGTGGCAGCCTTACCTCAGGCATGGCTACTTCTGTTCCATGAGGCCGCCAACAGCAGAAGTTCAG  
 CGCTCTTCTCAATGACTGCATCAGACACCTGAACCACGATTACATGAAGCAGACAACATTTGAAGCCCAA  
 GCCTTTTTAGAAGCTGTGCAATTTCCCGCAGGAGAAGGGTCACTACGGCTCATGGGAAATGACCACCG  
 GGGATGAAGTCCAGGTCCTGAGTAAGCTGGTGTGGAGGAGCTCCTGCCACCTCCAGACTGACCTGCT  
 GCCTAAACTGAAGGGGAAGAAGAATGACAGAAAGAGGGCCTGGTTTGGACTCCTGGAGGAAGCCTACAAT  
 CTGGTTACAGCAAGTTTCAGAAGGATTAATGCCTTGAAGGAGGAGTGCAGAGCTTGACAAAAGGACC  
 TGGAAAGGACCATCCGCTCAGACATGGATCAGATTGTGACCTCAAAGAAGCTTTCTAACTGGGAAGATCCG  
 AGCAATGGTGGCTCAGCCAGCCGAGCAGTGTGTGGGAGAGCGTGCAGCCCTTCTGGCGTCCATTCTG  
 GAGGAGCTAATGGGGCCAGTGTGCTCTGGCTTCACTGAAGTCCGTGCACCTTTTGGAAAAGAAGTAGATG  
 AACTCAGTCAGAGCTTCCATGCTACCCAGGACAGTGCAGCTGAAGGAGGGCCTACAGCAGCTAATGAA  
 GCTTCTCTGGATTCTGTGAAGATGGAGCCTTGCTATACTAAAGTCAACCCTGCTTCCAGAGCGCCTGCTG  
 GACCTCCAGAGCCGCTTCAAGTTCCTCACGTTGACCTGGTGGTCCAGAGGACTCAGAACTACATGCAAG  
 AGCTCATGGAGAATGCTGTGTTACGTTTGTGAGCAGTTGCTCTCCCATATCTCCAAGGAGAGGCTTCCAG  
 AATACCAGTGGCCATCGAGAAGGTTAAGCTCCGTGTCTTAAAGCAATATGATTACGACAGCAGCACCATC  
 CGGAAGAAGATCTTCCAGGAGGCATTGATTCAAATCACACTGCCCACTGTGCAGAAGGGCTGGCATCCA  
 CATGCAAACCAGAGCTTCCAGAAATATGAGCAGTTCATCTTTGAGATCATACCAACATGATCCACGTTGA  
 GAACGTCTATGAAGAGATTTTGTATGAGATCCTCCTCGATGAGACCCTGAAAGTGATAACGGAGGCAGCC  
 ATCTTGAAGAAACACAACCTATTTGAAGACAACATGGCCTTGCCAGTGAAGTGTGTCCAGCCTGACAG  
 ACCTCAAACCGCCATGGGGTCAAACCAGGCCAGCCAGCCAGAAGAGTATCTGCCATTCTCCAGGAGC  
 TCCAGATAATGAGCTCCAAGTAATGAAGTGTTCAGGAGCCAGAGGAAAAGAAGGAGCAGCCTGGGGTG  
 CCTGGCTCACTGGCCATCTCTGCGTCCAGCTGTCTTCAAGTGGGGATGGGCAGGTGTCTGTGGATCACT  
 CTGCTGGGGGCCCTCTCACTGTAGAGAATACAGCAGGACCCCTCAGCTCACACTTGTGAGAGGTGGAAGC  
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 AAGGAAGTAAAAAGTTGTTGACTGTGACGGTGTCCGTAGAGTCTGCCCGGTGGTTGAAAATGATATCC  
 ACAACGGGACACCTGTTCCCAAGAGAATATAAAAAGAAGAAGAAAGCAAGATCCACCCAGAAGCCAGCCA  
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 GCTGAGGCTCCTGGGGTGGACTTGGGGTACTGCCAGAGGGTAGAGGCTCTACCTCTCAGTCCACCAAGT  
 GGGGGCTCACTGAGAACCAGCTGTCCAGGCCCATAGAGGAGCCATTTGAGGCTCAAGAGCCAGCAGA  
 GAAGGTGCTCCAGCCATAGTTTCTACAGAGGACAGCCCCAGGCAGGAGGTGAGGCTGAGCATTGCGGTG  
 ACAGTCACACCTCAAGAAGATGCCACGTTAAGCTCTAACCCCATCTGTCCCATGGAGAGCAATGAGGTGG  
 CCCAGGCTTCTGGGGATCAAGAAGTGTGGGAGGGGAGGATAGCTCAGCCCTTGGTATGGATACAGAGCA  
 AGTCAATGATACTCATGAGCATGCTTGTGAGTGGTGGTGGAGGATACCCTGAGCACTGACATCCTAGCC  
 GTACATGATTTTGTGAGTCTCCAGAGCAGCCCTCAGAGGAGTGG

**ACGCGTACGCGGCCGCTCGAG** – GFP Tag – GTTTAA

**Protein Sequence:** >MG217490 representing NM\_022018  
 Red=Cloning site Green=Tags(s)

MGGSASSQLDEGKCAYIRGKTEASIKNFSPPYSRQYSVAFCNHVRSEVEQQRDLTSQFLKTKPPLEPGTV  
 LYEAELSQFAEDIRKWKDRYIVIKNDFAVESYESKEAYQRGAVPKSRILPAGGKVLTSSEEEYSLSDKHF  
 PDPTASSEKNSQPFVLLPKAFPVYLWQPYLRHG YFCFHEAAEQKF SALLNDCIRHLNHDYMKQTTFEAQ  
 AFLEAVQFFRQEKGHYGSWEMTTGDEVQVLSKL VMEELLPTLQTDLLPKLKGGKNDKRKAWFGLLEEAYN  
 LVQHQVSEGLNALKEECRALTKDLEGTIRSDMDQIVTSKNFLTGKIRAMVAQPAEQCCGESVQPFLASIL  
 EELMGPVSSGFSEVRALFEKEVDELQS F HATQDSAQLKEGLQQLMKLPLDSVKMEPCYTKVTLLPERLL  
 DLQSRFRFPVVDL VVQRTQNYMQELMENA VFTFEQLLSPYLQGEASRIPVAIEKVLRVLKQYDYDSSTI  
 RKKIFQEALIQITLPTVQKALASTCKPELQKYEQFIFADHTNMIHVENVYEEILYEILLDETLKVITEAA  
 ILKKNLFDNMALPSESVSSLTDLKTAMGSNQASPARVSAILPGAPDNELPSNEVFQEPEEKKEQPGV  
 PGS LAISASSCPGGDQVSDHSAGGPLTVENTAGPLSSHLSEVEAGGTLKDEEPTCQSPEPSAVPGSL  
 KELKLLT VTVSVESAPVVENDIHN GTPVPQENIKEEESKIHPEASHPAAIQQDSCEEREVREKAEQPLE  
 AEAPGVLDGILPEGRGSTSQSTSGGLTENTSCPGPIEEPFEAQEPAEKVLP AIVSTEDSPQAGGEAEHSV  
 TVTPQEDATLSSNPICPMESNEVAQASGDQEV LGGEDSSALGMDTEQVNDTHEACQWLVEDTLSTDILA  
 VHDFDVSSPEQPSEEW

TRTRPLE - GFP Tag - V

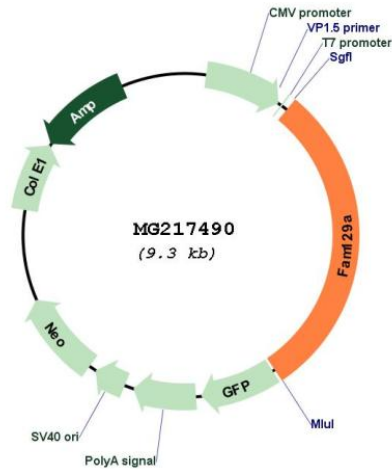
**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**



Plasmid Map:



ACCN: NM\_022018

ORF Size: 2778 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\\_022018.3](#), [NP\\_071301.2](#)

RefSeq Size: 3956 bp

RefSeq ORF: 2781 bp

Locus ID: 63913

UniProt ID: [Q3UW53](#)

Cytogenetics: 1 G1- G2

**Gene Summary:**

Regulates phosphorylation of a number of proteins involved in translation regulation including EIF2A, EIF4EBP1 and RPS6KB1. May be involved in the endoplasmic reticulum stress response.[UniProtKB/Swiss-Prot Function]