

## Product datasheet for **MG218367**

### Fam120a (NM\_001033268) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Fam120a (NM_001033268) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Fam120a
Synonyms:	C9orf10; Ossa
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG218367 representing NM_001033268 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGGCGTGCAGGGCTTCCAGGACTACATCGAGAAGCACTGTCCGAGCGCCGTGGTGCCTGGAGCTGC  
AGAAGCTGGCCCGGGCAGCCTGGTGGCGGGCGGCAGCGGCCCGCCAGACCCCGCTGCGCCTGCT  
GGTGGATGCCGACAACCTGCCTGCATCGCCTGTACGGTGGCTTCTACACCGACTGGGTGAGCGGGCCAG  
TGGAAACCATGTCTGGCTACCTGGCGGCTCTGGCCAAGGCTGCTTCGGAGGCAACATCGAGCTCTTCG  
TCTTCTCAATGGCGCGCTCGAGAAGGCCCGGCTGCACGAGTGGGTCAAGCGGCAGGCAACGAGCGCCA  
GACAGCGCAGCAGATCGTCAGCCATGTCCAGAACAAGGGCACGCCACCGCCAAGGTCTGGTTCCCTGCCT  
CCGGTCTGTATGGCCCACTGCATCCGCCTGGCGCTCATCCGCTTCCACGTCAAGTTGCACAGAGCATTG  
AGGATCATCATCAAGAAGTGATTGGCTTCTGCAGAGAGAATGGTTTCCATGGCTTGGTGGCATATGACTC  
CGATTATGCAGTGTGCAACATCCCTACTACTTTCAGTGCCCATGCCCTGAAACTGAGCCGCAACGGGAAG  
AGTCTCACCACAAGCCAGTATCTGATGCACGAGTTGCCAAGCAACTGGACCTGAACCCAAATCGTTTTT  
CTATTTTGTGCTCTGTAGGAAATCACATACTACCTGATGAGGATCTGGCTTCCCTCCATTGGAGTTT  
ACTTGGTCCAGAGCATCCACTCGCCTCACTGAAGTCCGAGCCCACCAGTGGTCTTCCACCCTGTGAT  
GTAGTGATCAAAGCCGTAGCTGATTATGTTCCGAACATTCATGACACGTCTGACCTGGATGCCATAGCTA  
AAGATGTTTTCCAGCATTACAGTCAAGAACAGATGACAAAGTCATTTCGGTTTAAGAGAGCAGTTGGATA  
TTATTCAGCAACTAGCAAGCCCATGCCATTTCCACCACCACTTACTTAGCCCGACCAAAATCCATTTGGA  
ATGCCTGGGATGGTGCCACCATATGTTCCCCCTCAGATGCTCAACATTCCACAGACTTCTCTGCAAGCAA  
AGCCCGCGGTCCCGCAGGTGCCAGCCAGGGGGCACCCAGGCCAGGCTCCATACCCATACAGCCTCTC  
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CATGAGGGGAAGCACACCCGCTGTATGAGCGCTCCTCGCCATCAACCTGGCCAGAGTGGCAGCCCCA  
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GCACGGGAGACCCAGGAGACCAAGTAAAGGTAGAAGGCTCATCCACTGCCTCTTCGGGGAGCCAGCTAG  
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 GAGACTACAAAAGCCAGGGAGCAATT CAGGCGAGGCTCCTTATGCTGCTCAGCAGAAGAAAGTGGCCAA  
 AGAAGTGAAGTCGAAATCTGGGGAATCCAAGTCTCTGCTGTGCTCCTGGCTGAAAACGGAGTGTGGCC  
 GAGGAGAAGCCAGTGCCTCAACTTAATGGGAGCACGGGTACCCAGAGTCCCCAGCCACTCTGAAAGTG  
 CCTTGAATAATGACTCTAAACCGTGCAATACAAATCCTCACTTAAATGCACTAAGTACAGACAGCGCCTG  
 CCGCAGGGAGGCTGCTCTGGAGGAGCTGTCTTAATAAAGAAGAG

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

**Protein Sequence:**

>MG218367 representing NM\_001033268  
 Red=Cloning site Green=Tags(s)

MGVQGFQDYIEKHCPASVVPVELQKLARGSLVGGGRQRPPTPLRLLVDADNCLHRLYGGFYTDWVSGGQ  
 WNHMLGYLAALAKACFGGNIELFVFFNGALEKARLHEWVKRQGNERTAQQIVSHVQNKGTPPPQVWFLP  
 PVCMAHCIRLALIRFHVKVAQSIEDHHQEVIGFCRENGFHGLVAYDSYALCNIPYYFSAHALKLSRNGK  
 SLTTSQYLMHEVAKQLDLNPNRFPIFAALLGNHILPDEDLASFHWSLLGPEHPLASLKVRAHQVLPPCD  
 VVIKAVADYVRNIHDTSDLDAIAKDFVQHSQSRTDDKVIKRAVGYYSATSKPMPFHPPHYLARPNPFG  
 MPGMVPPYVPPQMLNIPQTSLQAKPAVPQVPSGGTGPQAPYPYSLSEPALTLDTSGKNL TEQNSYSNIP  
 HEGKHTPLYERSSPINLAQSGSPNHVDSAYFPGSSTSSSDNDEGGGATNHSNKGWKTGSHAEPL  
 ARGDPGDQVKVEGSSSTASSGSQLAEGKGSMTGTVQPIPCLLSMPTRNHMDITTPPLPPVAPEVLRVAEHR  
 HKKGLMYPYIFHILTKGEIKIAVSI EDEANKDLPPAALLYRPVQRVYVGVLFSLAESRKKTERLAFRKNR  
 LPPEFSPLIIKEWAAKYGKSPQTPELVEALAFREWTCPNLKRLWLKAVEDKNRRMRAFLACMRSDTPAM  
 LNPANVPTLHMLVCCVLRVMVQWPGARILRRQELDAFLAQALSPKLYEPDQLQELKIDNLDPRGIQLSAL  
 FMSGVDMALFANDACGQPIPWEHCCPWWYFDGKLFQSKLLKASREKTPLIDLCDGQAEQAAKVEKMRQSI  
 LEGLSFRQNHPLPFPFPALPFYPASVYPRHFGPVPPSQGRGRGFAGVCGFGGHHYGETVATGPYRAFVRV  
 TAASGHCGAFSGSDSRTSKSQGGVQPIPSQGGKLEIAGTVVGHWAGSRRGRGGRPFLQVVSVGGPAR  
 GRPRGVI STPVIRTFGRGRRYGRGYSQGAIQGRPPYAAASAEVAKELKSKSGESKSSAVSLAENGVMA  
 EEKVPVQLNGSTGDRVPSHESALNNDKPCNTNPHLNALSTDSACRREAALEAAVLNKEE

TRTRPLE – GFP Tag – V

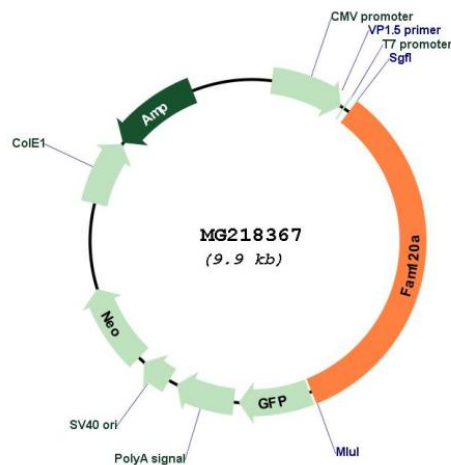
**Restriction Sites:**

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM\_001033268

ORF Size: 3336 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.

<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>NM_001033268.3</u>
<b>RefSeq Size:</b>	4919 bp
<b>RefSeq ORF:</b>	3339 bp
<b>Locus ID:</b>	218236
<b>UniProt ID:</b>	<u>Q6A0A9</u>
<b>Cytogenetics:</b>	13 A5
<b>Gene Summary:</b>	Critical component of the oxidative stress-induced survival signaling. Activates src family kinases and acts as a scaffolding protein enabling src family kinases to phosphorylate and activate PI3-kinase. Binds RNA and promotes the secretion of IGF-II (By similarity). May participate in mRNA transport in the cytoplasm.[UniProtKB/Swiss-Prot Function]