

Product datasheet for **RG210679**

FAM120A (NM_014612) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	FAM120A (NM_014612) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	FAM120A
Synonyms:	C9orf10; HBVPTPAP; OSSA
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG210679 representing NM_014612 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGCGTGCAGGGCTTCCAGGACTACATCGAGAAGCACTGCCGAGCGCCGTGGTCCGGTGGAGCTGC
AGAAGCTGGCCCGGGCAGCCTGGTGGCGGGCGGCAGCGGCCCGCCAGACCCCGCTGCGCCTGCT
GGTGGACGCCGACAACCTGCCTGCACCGCCTCTACGGCGGCTTCTACACCGACTGGGTGAGCGCGGCCAG
TGGAAACCATGCTTGGCTACCTGGCGGCGCTGGCCAAGGCTGCTTCGGCGGCAACATCGAGCTCTTCG
TCTTCTCAACGGCGCGCTCGAGAAGGCCCGGCTGCACGAGTGGGTCAAGCGGCAGGGCAACGAGCGCCA
GACGGCACAGCAGATCGTCAGCCATGTCCAGAACAAGGGCACCCCGCCAAAGGTCTGGTTCTCGCCG
CCCGTCTGCATGGCCCACTGCATCCGCCTGGCGCTCATCCGCTTCCACGTCAAGGTTGCACAGAGCATTG
AGGATCACCATCAGGAAGTGATTGGTTTTCTGCAGAGAGAATGGTTTTCCATGGCTTGGTTGCGTATGACTC
TGATTATGCACCTGTGCAACATCCCTACTATTTTCAGTGCCCATGCCCTAAAACCTGAGCCGGAACGGGAAA
AGTCTCACCACAAGCCAATATCTGATGCATGAAGTTGCCAAGCAACTGGACCTGAATCCAATCGTTTTTC
CTATTTTTGCTGCTCTCTTAGGAAATCACATTCTGCCTGATGAAGATCTGGCTTCTTTTCATTGGAGTTT
ACTTGGTCCAGAACATCCACTAGCCTCACTAAAGTCCGGGCCACCAGCTGGTCTTGCCACCTTGCGAC
GTAGTGATCAAAGCCGTTGCTGACTATGTACGCAACATTCAGGACACCTGACTTGGATGCCATAGCTA
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GGAATGCCTGGGATGGTGCCGCCGATGTTCTCCTCAGATGCTCAACATTCCGCAGACCTCTCTGCAAG
CAAAGCCCGTGGCCACAGGTGCCAGCCAGGGGGCGCCCGGGCCAGGGTCCATACCCGTACAGCCT
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CCTCAGGCACGAGGAGACCCAGGAGACCAACAAGGCAGAAGGCTCGTCCACTGCCTCTTCAGGAAGCC
 AACTAGCCGAAGGCAAGGGAAGCCAGATGGGCACTGTCCAGCCAATCCCCTGCCTCTGTGATGCCAC
 CAGGAACCACATGGACATCACCACACCTCCCCTGCCCCCGTCGCACCTGAGGTGCTGAGAGTGGCCGAG
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 CGTGTGGCGGCAGCATCGGGACACTGCGGAGCCTTCTCAGGCAGTGACAGCAGCAGGACTAGCAAGTCCC
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 CTAGAGGGCGTCCAAGAGGAGTATTTCCACCCAGTGATTAGAATTTGGAAGAGTGAAGTACT
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 GGCCAAAAGAACTTAAGTCAAAATCTGGGAATCGAAGTCTCTGCTATGCTTTCAGACGGGTCCTGGCT
 GAAAACGAGTGTGGCCGAGGAGAAGCCGGCTCCCCAGATGAACGGGAGCAGGGTGCAGCCAGGGCCC
 CCAGCCACTCTGAAAGTGCCTTGAATAATGACTCTAAAACGTGCAATACAAATCCTCATTAAATGCACT
 AAGTACAGACAGCGCTTGCCGACAGAGAAGCTGCTCTGGAGGCAGCTGTCTTAAATAAAGAAGAG

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG210679 representing NM_014612
 Red=Cloning site Green=Tags(s)

MGVQGFQDYIEKHCPSAVVPVELQKLARGSLVGGGRQRPPTPLRLLVDADNCLHRLYGGFYTDWVSGGQ
 WNHMLGYLAALAKACFGGNIELVFFNGALEKARLHEWVKRQGNERTAQQIVSHVQNKGTPPPQVWFLP
 PVCMAHCIRLALIRFHVKAQSIEDHHQEVIGFCRENGFHGLVAYDSYALCNIPYYFSAHALKLSRNGK
 SLTTSQYLMHEVAKQLDLNPNRFPFAALLGNHILPDEDLASFHWSLLGPEHPLASLKVRAHQVLPPCD
 VVIKAVADYVRNIQDSDLDAIAKDVQHSQSRDDKVIKRAIGYYSATSKPMSFHPPHYLAARPGPF
 GMPGMVPPHVPQMLNIPQTSLQAKPVAPQVPSGGAPGQGPYPYSLSEPAPLTLDTSGKNLTEQNSYSN
 IPHEGKHTPLYERSSPINPAQSGSPNHVDSAYFPGSSSTSSSDNDEGSGGATNHSNKGIGWEKTGSHSE
 PQARGDPGDQTKAEGSSSTASSGSQLAEGKGSQMGTVQPIPCLLSMPTRNHMDITPPLPPVAPEVLRVAE
 HRHKKGLMYPYIFHVLTKGEIKIAVSIIDEANKDLPPAALLYRPVRQYVYGVLFSLAESRKKTERLAFRK
 NRLPPEFSPVIEKEWAAYKKGSPQTPPELVEALAFREWTCPNLKRLLWLGKAVEDKNRRMRAFLACMRSDTP
 AMLNPNANVPHTLMVLCVLRVMVQWPGARILRRQELDAFLAQLSPKL YEPDQLQELKIENLDPRGIQLS
 ALFMSGVDMALFANDACGQPIPWEHCPCWYFDGKLFQSKLLKASREKTPIDLCDGQADQAAKVEKMRQ
 SVLEGLSFSRQSHLPPFPFPALPFYPASAYPRHFGPVPPSQGRGRGFAVCVGGFPYGETVATGPYRAF
 RYAAASGHCFAFGSDSSRTSKSQGGVQIPISQGGKLEIAGTVVGHWAGSRRRGRGRGPFPLQVVSVGGP
 ARGRRPVISTPVRTFGRGRYVGRYKNQAAIQRRPPYAASAEVAKELKSKSGESKSSAMSDGSLA
 ENGVMAEEKPAPQMNGSTGDARAPSHSESALNNSKTCNTNPHLNALSTDSACRREAALEAVLNKEE

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

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:	<ol style="list-style-type: none">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:	<u>NM_014612.3, NP_055427.2</u>
RefSeq Size:	4957 bp
RefSeq ORF:	3357 bp
Locus ID:	23196
UniProt ID:	<u>Q9NZB2</u>
Cytogenetics:	9q22.31
Gene Summary:	May participate in mRNA transport in the cytoplasm (By similarity). 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. May play a pivotal role in the progression of scirrhou-type gastric cancer by supporting cancer cell survival in environments with various oxidative stresses.[UniProtKB/Swiss-Prot Function]