

Product datasheet for **RG229326**

FAM161A (NM_032180) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	FAM161A (NM_032180) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	FAM161A
Synonyms:	RP28
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG229326 representing NM_032180
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCCACCTCCCACCGAGTGGCGAAGCTGGTGGCTCCAGTCTCCAGACCCCGTAAATCCCATCACTG
 GAGCGCGGGTCGCCAGTACGAACGCGAAGACCCCTTAAAGGCCCTGGCGCAGCGGAGGCGATCTTGA
 GGACGAAGAGGAGGAGAAAGTGGCGCAGCCGCTGGGGCATCGGCTGATTTGAACACCAGCTTTTCTGGG
 GTGGATGAACATGCACCGATAAGCTATGAGGACTTTGTGAACCTTCTGATATTCACCACTCTAATGAGG
 AGTATTTCAAGAAAGTAGAAGAGTTGAAGGCTGCCACATAGAACTATGGCAAAATAGAGAAAATGTA
 CCAGGATAAATTACATTTAAAGGAAGTTCAGCCAGTGGTCATCAGAGAAGACTCTCTTAGTGACTCTTCC
 AGATCTGTATCAGAAAAGAACTCTATCACCTGTCTCATTAAATGACATCATTTTCAGAGCCTGATTTAG
 GCCAGTCTTCTCTTGTATGTGTCTCTCTGAAGAGGAGTTACCCAACCTAGAAAAAGAGTATCCTAG
 GAAAAACAGAATGATGACCTATGCTAAGGAGCTCATCAACAATATGTGGACAGACTTTTGTGTTGAGGAT
 TATATTCGCTGTAAGATACTGGCTCCATGCAGCTGAAAAAAGAAGGAAGAAAAAGAAAGATGGGTGC
 CCACAATTACAGTACCGAGCCTTTTCAAATGATGATAAGAGAACAAGAAAAAAGAAGAGTCCATGAA
 ATCTAAATCAGATATCGAAATGGTACATAAAGCGCTCAAAAAACAAGAAGAGGATCCAGAGTATAAGAAG
 AAATTCGAGCCAATCCAGTTCCTGCATCTGTCTTCTCCCCCTTACCATGATTTAGTCAAGCAAAAAAG
 AAGAACGGAGAAGGTCTCTGAAGGAGAAAAAGCAAAAGAAGCTCTTTTGGCCTCACAAAAGCCATTTAAATT
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 AAGAAGAAGAGCTCTATCGAAACCTTAGGACACAGCTGAGAGCCAGGAGCATTTACAGAACTCATCTCC
 TCTGCCTGTAGGTCAGCTTGTGGATGCAGGAACCCAGGTGCTCTGAACAGGCTGTAAAGTTGAAGTGT
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 AACACAAGTCTCCAAAACCTTAAACAGTGTGTAACCATTGATCTTCATGCATCTCCACATGCATCTAT
 TAAAAGAGAAAAATTTTGGCAGACATCGAAGCAGATGAAGAAAAATTTAAAAGAAACACGTTGGCCTTAT
 TTGTCTCCAAGGCGTAAGTACCAGTAAGATGTGCAGGTGTAACCCTGTGCCTTGTAACTGCAACCCTC
 CCGTGCCACGGTATCTCCAGAGGACGAGAACAAGCCGTAAGAAAGAGCGAAAAGGAAAGGATGAGAGA
 ATACCAACGAGAAGTGAAGAAAGAGAAGAAAAATTTAAAAGAGGCCACTGCTATTTGAAAGAGTTGCT
 CAGAAAAATGCAAGAATGGCAGCAGAAAAGCATTATTCTAATACCCTAAAAGCACTAGGAATATCTGATG
 AGTTTGTTCAAAAGAAAGCCAAAGTGGAAAAGTACTTGAGTACTTCAACAATCAAGAGACGAAAAGTGT
 CACTGAAGACAAAAGAAAGCTTTAATGAAGAAGAAAAATAGAAGAAGAGAGAATGGGGAAGAAAATTA
 TTTATTGATACCAACAGCCAGGATTCTTACAAGGAAAAAGATGAAGCCAATGAGGAAAGTGAAGAAGAGA
 AATCTGTTGAAGAATCACAC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >RG229326 representing NM_032180
Red=Cloning site Green=Tags(s)

MATSHRVAKLVASSLQTPVNPITGARVAQYEREDPLKALAAEAILEDEEEEEKVAQPAGASADLNTSFSG
 VDEHAPISYEDFVNFPDIHHSNEEYFKKVEELKAAHIETMAKLEKMYQDKLHLKEVQPVVIREDSLSDSS
 RSVSEKNSYHPVSLMTSFSPEDLGQSSSLYVSSSEELPNLEKEYPRKNRMMTYAKELINNMTDFCVED
 YIRCKDTGFHAAEKRRKRKEWVPTITVPEPFQMMIREQKKKKEESMKSKSDIEMVHKALKKQEEDPEYKK
 KFRANPVPASVFLPLYHDLVKQKEERRSLKEKSKEALLASQKPFKFIAREEQKRAAREQLRDFLKYKK
 KTNRFKARPIPRSTYGSTTNDKLEKEELYRNLRTQLRAQEHLQNSSPLPCRACGCRNPRCPEQAVKLKC
 KHKVRCPTPDFEDLPERYQKHLSEHKSPKLLTVCKPFDLHASPHASIKREKILADIEADEENLKETRWPY
 LSPRRKSPVRCAGVNPVPCNCNPPVPTVSSRGREQAVRKSEKERMREYQRELEEREKLLKRPLLFERVA
 QKNARMAAEKHYSNTLKGISDEFVSKKGQSGKVLEYFNNQETKSVTEDKESFNEEEEKIEERENGEENY
 FIDTNSQDSYKEKDEANEESEEEKSVEESH

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_032180

ORF Size: 1980 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_032180.2](#), [NP_115556.2](#)

RefSeq Size: 3692 bp

RefSeq ORF: 1983 bp

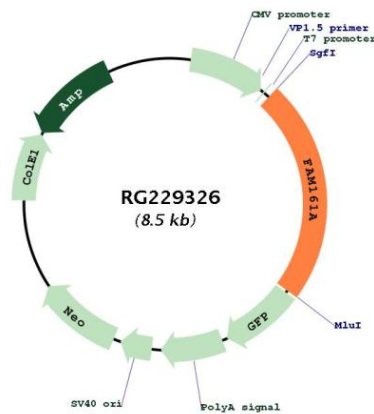
Locus ID: 84140

UniProt ID: [Q3B820](#)

Cytogenetics: 2p15

Gene Summary: This gene belongs to the FAM161 family. It is expressed mainly in the retina. Mouse studies suggested that this gene is involved in development of retinal progenitors during embryogenesis, and that its activity is restricted to mature photoreceptors after birth. Mutations in this gene cause autosomal recessive retinitis pigmentosa-28. Alternatively spliced transcript variants have been identified.[provided by RefSeq, Jan 2011]

Product images:



Circular map for RG229326