

Product datasheet for **RG224490**

RNF70 (PJA1) (NM_145119) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RNF70 (PJA1) (NM_145119) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	RNF70
Synonyms:	PRAJA1; RNF70
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG224490 representing NM_145119
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGC**C

ATGGGTCAGGAATCTAGCAAGCCTGTATGGCCCAATCCAACAGGAGGGTATCAGTCCAATACAGGTAGGA
 GGTATGGAAGAAGGCATGCTTATGTCAAGTTTCAGGCCACCCACGAGCCAGCGGAAAGGATTGCCAGCCA
 GAGAAAGACGAACTCCGAAGTCCCAATGCACAGATCAGCCCCAGTCAAACCAACAGAGAGCCGATCG
 CCATTTTCCACTACTCGTCGTAGTTGGGACGACAGCGAGAGTTCGGGAACCAACCTGAATATTGATAATG
 AGGACTATTCCAGGTATCCGCCAAGAGAGTACAGAGCTTCGGGTAGCAGAAGAGGAATGGCCTATGGACA
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 AGCAAGATGCTCAGCTAGCAGAGCTGACTTCTGCCACAAAGTAGTGTGGCCTCACAGTCGTCTTCTGAA
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 GCAGGGCTCCTGTGAGTATTTGTGGTGGTGGGAAAACACCTCAAAGAGTGCAGAGGAACCTGTGGTCAG
 GCCCAAAATCAGAAACCTGGCAAGTCCAACTGCGTGAAACCAAAATTTTTTTGATACTGATGATGAT
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 AGCGAGGAGTGACCAAGTGAAACCAGAAAGGTGCCGAGACGACGACGCCACCATGGCCGACCCTGACTTC
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 GGGGAAAGAAGAGCGGGGAACCTCCACAGGCTAAGGTGAGTGCCAGCACTGGCACCAAGCCCTGGCCCCGGT
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 TTCGAGAACCATCTCTCAGGAAGAGCAGGCATCCCTGGAAGAAGGAGAAATTCCTTGGCTCCAGTACCA
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 TTGATGGATTTGCAGATGGGTTAGGAGTGGCTGAAGCCATTTCTATGTGGACCCTCAGTTCCTCACCTA
 CATGGCACTTGAAGAAGCCTGGCCAGGCAATGGAACTGCCCTTGCAGCTTGGAGTCTCTCGCAGTG
 GATGTAGAGGTGGCAATCCACCAGCAAGCAAGGAGAGCATTGACGCTCTCCCGAGATCCTGGTCACTG
 AAGATCATGGCGAGTTGGTCAGGAGATGTGCTGCCCCATCTGCTGTAGCGAATATGTGAAGGGGAGGT
 GGCAACTGAGCTGCCGTGCCACCACTATTTCCACAAGCCGTGTGTGTCCATCTGGCTTCAGAAGTCAGGC
 ACCTGCCCCGTGTGCCGTGCATGTTCCCTCCCCCACTC

ACGCGTACGCGGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

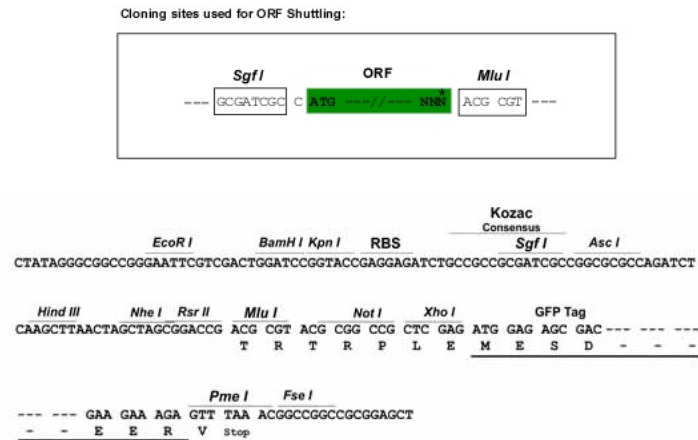
>RG224490 representing NM_145119
 Red=Cloning site Green=Tags(s)

MGQESSKPVWPNPTGGYQSNTRRRYGRRHAYVSFRPPTSQRERIASQRKTNSEVPMHRSAPSQTTKRSRS
 PFSTTRRSWDDSESSGTNLNIDNEDYSRYPPREYRASGSRRGMAYGHIDSYGADDSEEGAGPVERPPVR
 GKTGKFDDKLVDPEKGARSLAGPPPHFSSFSDVREERDKLDPVPAARCSASRADFLPQSSVASQSSSE
 GKLATKGDSSERERREQNLPARPSRAPVSI CGGGENTS KSAEEPVVRPKIRNLASPNCKPKIFFDTDDD
 DDMPHSTSRWRDTANDNEGHSDGLARRGRGESSGYPEPKYPEDKREARSDQVKPEKVPRRRRRTMADPDF
 WTHSDDYKYCDESDSDKEWIAALRRKYRSREQTLSSSGESWETLPGKEEREPPQAKVSASTGTSPGPG
 ASASAGAGAGASAGSNGSNYLEEVREPSLQEEQASLEEGEIPWLQYHENDSSSEGDNDSGHELMQPGVFM
 LDGNNLEDDSSVSEDLVDWSLFDGFDGLGVAEAI SYVDPQFLTYMALEERLAQAMETALAHLESLAV
 DVEVANPPASKESIDALPEILVTEHDHGA VGQEMCCPICSEYVKGEVATELPCHHYFHKPCVSIWLQKSG
 TCPVCRCMFPPL

TRTRPLE – GFP Tag – V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_145119

ORF Size: 1929 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

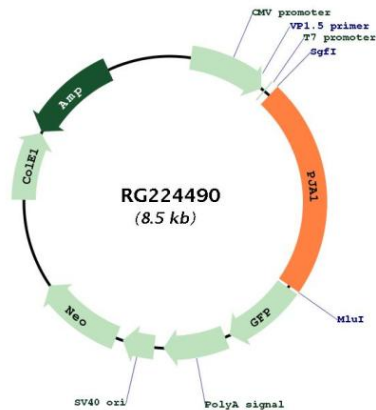
RefSeq: [NM_145119.4](#)

RefSeq Size: 2700 bp

RefSeq ORF: 1932 bp

Locus ID:	64219
UniProt ID:	Q8NG27
Cytogenetics:	Xq13.1
Protein Families:	Druggable Genome
Gene Summary:	This gene encodes an enzyme that has E2-dependent E3 ubiquitin-protein ligase activity. This enzyme belongs to a class of ubiquitin ligases that include a RING finger motif, and it can interact with the E2 ubiquitin-conjugating enzyme UbcH5B. This gene is located in an area of chromosome X where several X-linked cognitive disability disorders have been associated, and it has also been found as part of a contiguous gene deletion associated with craniofrontonasal syndrome, though a direct link to any disorder has yet to be demonstrated. Alternative splicing results in multiple transcript variants. [provided by RefSeq, May 2010]

Product images:



Circular map for RG224490