

Product datasheet for **RG216102**

IRF2BPL (NM_024496) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	IRF2BPL
Synonyms:	C14orf4; EAP1; NEDAMSS
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



ORF Nucleotide Sequence: >RG216102 ORF sequence, **codon optimized**.
Due to the complexity of NM_024496, the ORF clone is codon optimized for mammalian Expression.
The nucleotide sequence differs from the reference sequence, yet the amino acid sequence remains identical.

Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGTCAGCCGCCCAAGTCAGCAGCTCTCGACGCCAGTCTTGCTACCTCTGTGATCTGCCACGGATGCCCT
GGGCCATGATCTGGGACTTTTCTGAGCCCGTGTGTAGGGTTGTGTTAACTATGAAGGGGCAGATCGAAT
TGAATTCGTAATCGAGACTGCAAGGCAACTGAAACGGGCACACGGTTGCTTCCAGGATGGGAGTCCCGG
GGTCCCCCCCCACCCGTGGGGTTAAGACGGTTGCGCTCTCAGCCAAGGAGGCTGCCGCAGCCGCAGCAG
CAGCCGCCCGCAGCCGAGCTGCCAGCAACAGCAGCAGCAGCAGCAGCAGCAACAGCAGCAGCAACA
GCAGCAACAACAGCAGCAGCAGCAACAGCAGTTGAACCACGTGGACGGATCCTCTAAACCCGCTGTCTG
GCCGCACCCAGTGGACTGGAGCGCTACGGACTGTCCGCCGCTGCCGCCGCCGACGGGCAGCAGCCGAG
CAGTTGAACAGAGATCCCGATTCTGAATACCCCCACCTCCCGTTAGTCTCGGCAGTAGCTCACATACGGC
CAGATTGCCAATGGTCTGGGCGGACCCAAACGGATTCCCCAAGCCACACCAGAAGAGGGGCTCCCGAG
CTTAACAGGCAGTCCCCAACAGTTCTCCGCAGCCCGTCCGTGGCCAGTAGGCGCGGAACCCATGGGG
GTCTGGTGACGGGCTGCCAATCCAGGCGGTGGCGGCGGTCCACAACACCGTTCCCCCAATCTGCT
CCCACAACCTGCTGAACGGCCCTGCGTCAGCAGCCGTGCTTCCACGCCCGCCCGCAGCCCTCGGA
TCTCGGGCCCGCCACTCTGCCCGCCGGGAGCACCAGGCGGCCAGCCTGTCTGGGAGGCACACCCG
GGGTTTCAGCCACATCCTCCAGCGCCTCTAGTAGCACTTCAAGCTCCGTGGCCGAAAGTTGGTGTCGGCGC
GGGAGGAAAACGCCCGGAAGCGTATCATCTACCGACAGGAGAGGGAAGTGAAGGAGAAGCAACGCAAT
GCAGAGGCTTTGGCCGAGCTGTCCGAGTCACTGAGAAACAGGGCCGAGGAGTGGGCGAGCAAAACCAAAA
TGGTGCGGGACACATTGCTTACTCTCGCCGGTGCACTCCTTATGAAGTACGCTTCAAGAAGGATCATTC
CCTCTTGGGCGCGTTTTTGCCTTCGATGCCGTGCAAAACCTGGCATGGATTACGAACTGAAGTTGTTT
ATTGAGTATCCTACGGGGAGCGGTAACTTTATTCTAGCGCGTCCGGCGTAGCCAAACAGATGTATCAGG
ACTGCATGAAAGATTTCCGCAGAGGCCTTAGCAGTGGATTCAAGTATCTGGAGTATGAGAAAAGCATGG
GTCTGGGACTGGAGGCTCCTTGGGACCTGCTGCCGAAGCCGTGCGCTTCTTAAAGGAGGCGTTCCA
GGCGTGATATGTTGCCTCAGCCTTACCTGGACGCTAGTTGCCAATGTTGCCACAGCTCTCGTGTCTC
TCTCAAGAGCTCCCTCTGCTCTCCCGGCACTGGAGCACTGCCCCAGCGCCCTCTGGCAGGGGGGC
CGCCGCTTCCCTTAGAAAGCGCAAAGCTTCTCCGAACCACTGACAGCGCCGAGGGGCGATTGAAACTG
GGCGAAGAGCAGCAGCGCAACAATGGATGGCTAATCAGAGCGAAGCCTTGAACTTACGATGTCCGCAG
GGGGTTTCGCGGCCCCCGGACACGCGCCGGGGACCTCCTCCCCACCCCCCACTGGGCCACACAG
CAATAGGACGACTCCACCCGAATCAGCGCCACAGAACGGCCCTTCTCTATGGCGGCCCTTATGTCCGTT
GCTGATACTTTGGGACCGCACTCCCCAAAGGACGGGTCTAGCGTTTATAGTACCACGCTCTGCTA
GACGAAATTTCCAGCCAGTCAGCCCTGCTGTACCGGACAAACGCCGACTCGCGAGCCGGAACGG
GGATCTGAATCTGCAAGTTGCCCCGCCACCCCTTCAGCGCACCCAGGCATGGACCAGGTGCACCCACAG
AATATTCAGACTCTCCATGGCCAACTCAGGTCTCTGTGCTGTACCATCTGTACGAGCGGTTGGAAG
ATACCACTTCGTACAGTGCCCGAGCGTTCCTCCCAAGTTCTGTTTTCTGTTTACGCGAGAGCAT
CAAGGCGCAGGGGCAACCGCGAAGTGACTGCCAAGTGCGGAAAAATGTCCCCTCGTGGGAAGTAAC
GTGCCATGGCATTATGCAGGCGAGATTGCTACTATCCTCGCCGGGATGTGAAGGTAAGAAAGAGA
GGGATCCT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

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>RG216102 representing NM_024496
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Red=Cloning site Green=Tags(s)

MSAAQVSSRRQSCYLCDLPRMPWAMIWDFSEPVCRCGVNIEGADRIEFVIETARQLKRAHGCDFQGRSP
GPPPPVGVKTVALSAAKEAAAAAAAAAAAAAQQQQQQQQQQQQQQQQQQQQQQLNHVDGSSKPAVL
AAPSGLERYGLSAAAAAAAAAAAAVEQRSFEYPPPPVSLGSSSHTARLPNGLGGPNGFPKPTPEEGPPE
LNRQSPNSSSAAASVASRRGTHGGLVTGLPNPGGGGGPQLTVPPNLLPQTLNLNGPASAAVLPPPPPHALG
SRGPPTPAPPAGGPGACLGKTPGVSATSSASSSTSSVAVVGGAGGKRGPSVSSDQERELKMKQRN
AEALAELESLNRNIEAEWASGKPMVRDRTLTLACGTPEYVRFKDHSLGLRVFAVDVSKPMGYELKFL
IEYPTGSGNVYSSASGVAQMQYQDCMKDFGRGLSSGFKYLEYEKKHSGSDWRLLGDLLPEAVRFFKEGVP
GADMLPQPYLDASCPMLPTALVSLSRAPSAPPGTGALPPAAPSGRGAASLRKRKASPEPPDSAEAGALKI
GEEQQRQQWMANQSEALKLTMSAGGFAAGPHAAGGPPPPPLGPHSNRTTPPEAPQNGPSMAALMSV
ADTLGTAHSPKDGSSVHSTTASARRNSSSPVSPASVPGQRRLASRNGDLNLQVAPPPPSAHPGMDQVHPQ
NIPDPSMANSGPLCTCTICHERLEDTHFVQCPSPVSHKFCFPCSRESIKAQGATGEVYCPSGEKCLVGSN
VPWAFMOGEIATILAGDVKKVKKERDP

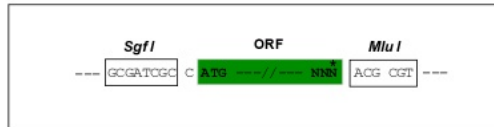
TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



EcoRI BamHI KpnI RBS Kozac Consensus SgfI AscI
 CTATAGGGCGGCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCCGCCGATCGCCGGCGCCAGATCT
 HindIII NheI RsrII MluI NotI XhoI GFP Tag
 CAAGCTTAACCTAGCTAGCGGACCG ACG CGT ACG CGG CCG CTC GAG ATG GAG AGC GAC --- --- ---
 T R T R P L E M E S D - - -
 --- --- GAA GAA AGA GTT TAA ACGGCCGCCCGGAGCT
 - - E E R V Stop

ACCN:	NM_024496
ORF Size:	2388 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_024496.2](#), [NP_078772.1](#)

RefSeq Size: 4166 bp

RefSeq ORF: 2391 bp

Locus ID: 64207

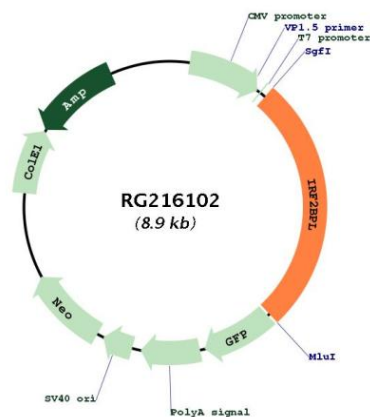
UniProt ID: [Q9HIB7](#)

Cytogenetics: 14q24.3

Protein Families: Druggable Genome

Gene Summary: This gene encodes a transcription factor that may play a role in regulating female reproductive function. [provided by RefSeq, Jun 2012]

Product images:



Circular map for RG216102