OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for RG206221

CFAP251 (NM_144668) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	CFAP251
Synonyms:	CaM-IP4; SPGF33; WDR66
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence:

>RG206221 representing NM_144668
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGTCAGATGCAGCAGAAGCTCCCCGAGAAGCAACAGGAGAAAATGGAGAAACAGAAATGAAAGAAGAGG
AGGAACCTAATCCAAATTATAAAGAAGTAGAAGATCCACAACAGGAATCAAAAGATGACACAATAGCATG
GAGAGAGTCTCAGGAGGAGGAGAGGAAAACGGGCGAGGAGGAAGGGGAGGAGGAGGAGAAAGAGGAGGAG
GGGAAGGAGGACAAAAAGATTGTCATGGAAGAAACTGAGGAAAAGGCTGGAGAAGTCCAAGAGAAGGAGG
CTTCAGGAATACAGGAAGAAACCACAGTAGAGCCCCAAGAAGTCACAGCGTCCATGATCCGTTTGGAGAC
ACAGATTACTGATTCCCAGTCAATCACATCAGGAATTTTCCCAAAAACCCAAAGAGGTAGCAAGTCAAAG
CTTTCCTTACAATTGGAGGATGCAGAAACAGATGAGCTTTTAAGAGACCTGAGCACACAAATTGAATTTC
TTGATTTGGATCAAATCAGTCCTGAGGAACAACAGATTAGTTCCCCTGAAAGGCAGCCCTCAGGAGAGCT
TGAGGAGAAAACCGACCGGATGCCCCAAGATGAACTGGGACAAGAAAGAAGGGACTTGGAGCCAGAAAAC
AGAGAGGAGGGACAAGAAAGGAGAGTATCCGACATCCAGTCCAAAGCAGGGATCTCCCGGGAGTCACTGG
TGTCCAGCACCACAGAGGACATTCTGTTTCAAAAGGATAAAAGCACCCCGGTGTATCCCTTGACCATGAC
CTGGTCGTTTGGATGGAACAGTTCTCTTCCTGTTTACTATATTCGAGAGGAAAGGCAGAGAGTTCTTCTG
TATGTTTGTGCTCACACTGCGATCATCTACAATGTGTTCAGGAACAATCAATACCACCTTCAGGGCCACG
CCAATATTATCTCCTGCCTCTGCGTCAGTGAAGACAGGCGGTGGATCGCCACAGCAGACAAAGGGCCAGA
CTGCCTGGTGATTATATGGGACTCCTTCACAGGTATTCCTGTGCACACAATATTTGACAGCTGCCCTGAA
GGGAATGGCATCATGGCCATGGCCATGACCCACGACGCCAAGTATCTGGCAACCATCTCAGATGCTGAAG
TCCAGAAGGTATGCATCTGGAAGTGGACTTTGGCAGTGGAAACGCCAGCATGCACTCTCGAACTCCCCAC
AGAGTACGGTGTTCAGAACTACGTTACTTTTAACCCAACAAATAATAAAGAATTGGTGAGCAATAGTAAA
ACACGGGCAATATATTATGCATGGTATGAAGAGAGGGATACACTGGCTCACAGTGCCCCACTTTTAACTG
AAAAAACCTTCAACAAGCTTGTGGGAAAGTTTAGCCAGTCCATCTTTCACTTGAATTTAACACAAATACT
CTCAGCCACAATGGAAGGGAAGCTGGTTGTCTGGGACATACACCGCCCACCCTCATCTGCCTCCACCTTT
TTGGGCTTTCCCTATATCAAGCCTTGTAAATTGGTTCATTTGCAGAAAGAGGGTATCACGGTACTTACCA

View online »

CAATTGATAGCTACATTGTCACAGGTGACATTAAGGGGAACATTAAGTTCTATGATCACACCCTGTCTAT
TGTTAACTGGTACAGTCACTTGAAACTGGGCGCCATAAGAACTCTGTCCTTTTCAAAGACCCCAGCAACT
CCTCCTACTGAAAAATCAAACTATCCTCCTGACTGCACTTTAAAAGGTGACCTTTTTGTCTTAAGGAATT
TTATCATTGGAACATCTGATGCCGCGGTGTACCACTTAACAACAGATGGGACCAAACTTGAGAAGTTATT
TGTAGAGCCCAAGGATGCCATTTGTGCCATCTCCTGCCACCCATATCAACCCCTCATTGCCATCGGGAGC
ATCTGTGGGATGATCAAAGTGTGGAATTATGAAAACAAACAATATCTTTTCAGCAGGGTTTTTGAGAAGG
GGTTTGGAGTCCAGAGTCTGACCTACAACCCCGAAGGAGCCCTTCTTGGAGCTGGCTTTACAGAGGGGAC
AGTTTACATTCTTGATGCAATGTCTTTAGAAAATGAAAGCCCAGAGCCTTTCAAATATTCCAGAACCAGT
GTGACTCATATAAGCTTTTCCCATGACTCCCAGTATATGGCAACTGCTGATAGAAGTTTTACTGTGGCTG
TTTACATGCTGGTGGTCAGAAATGGACAGAGGGTCTGGGAGTACTTAGCAAGACTTCGCTCTCATCGCAA
AAGCATTCGAAGTCTCCTGTTTGGGGTTTACCTGGACAGCAATGAGCCTAGACTGCTGAGCCTTGGGACA
GACAGGCTCTTGATAGAGTATGATCTTCTCAGGAGCTACAAAGACCACCTGGAAGTCCTGGACATTCACC
ACACCGACCAGGGCTGCTATCCCACCTGCATGGTCTGGTACCCACCACTCACCAGGGAACTCTTCCTGCT
TATTTGCAACAGTGGCTACAAAGTGAAGCTTTTTAATGCTACTACCAAAATGTGCAGAAAGACGCTTCTG
GGGCCAGCTTATGGTTCCCCTATTGAGCAGACACAAGTCCTCCCAGTGAGAAGCATGGCGGAGCTACAGA
AACGCTACTTGGTGTTTATTAACAGAGACAAGTTGGGACTTCAGATCTTACCAGTTGACGGCAATCCACA
TAAGACATCTGCTATTGTTTGCCACCCGAACGGGGTGGCCGGCATGGCCGTTTCCTATGATGGCTGCTAC
GCCTTCACTGCGGGAGGGCACGATCGCTCGGTGGTGCAGTGGAAAATCACCTTAAGTGTCCTGGAGGCAG
CGGTTTCTCTTGGGGGTGAAGACTTGACCCCATTCTATGGTCTGCTGTCTGGTGGCCGGGAAGGAAAATT
CTACAGGGAGCTAGAAGACTACTTCTACTATTCTCAGCTCCGCAGTCAAGGCATCGACACAATGGAGACC
AGAAAGGTGTCAGAACACATTTGCCTGTCAGAGCTTCCTTTTGTCATGAGAGCAATTGGCTTTTACCCAT
CTGAAGAGAAGATTGATGATATATTTAACGAAATCAAATTTGGTGAATATGTGGACACTGGAAAGCTAAT
CGACAAGATCAACTTACCAGATTTCCTAAAAGTGTACCTTAACCACAAGCCACCTTTTGGTAACACCATG
AGTGGCATCCACAAGAGCTTTGAGGTGCTCGGTTATACCAACTCCAAAGGGAAAAAGGCCATTCGAAGAG
AGGACTTCCTGAGACTGCTCGTTACTAAAGGTGAGCATATGACGGAGGAGGAGATGTTGGATTGCTTTGC
TTCACTGTTTGGCCTGAATCCCGAGGGATGGAAATCCGAGCCTGCAACCTGCTCCGTCAAAGGTTCAGAA
ATTTGCCTTGAAGAAGAACTTCCAGACGAAATCACTGCAGAAATATTCGCGACTGAAATTCTTGGCTTAA
CCATTTCAGAAGATTCCGGCCAGGATGGTCAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

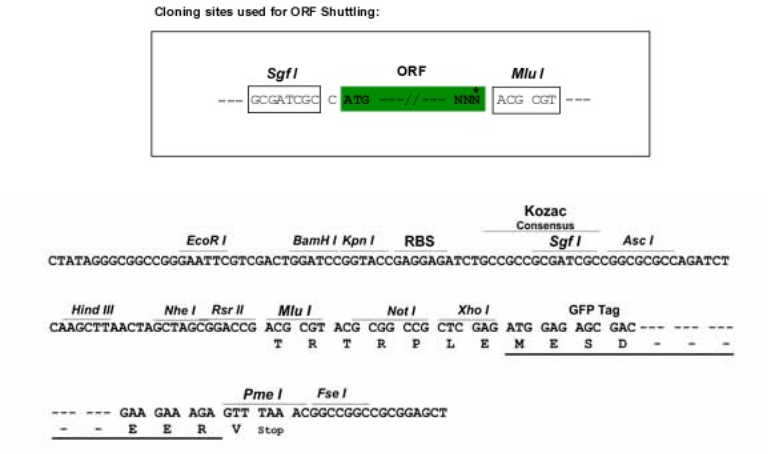
>RG206221 representing NM_144668
Red=Cloning site Green=Tags(s)

MSDAAEAPREATGENGETEMKEEEEPNPNYKEVEDPQQESKDDTIAWRESQEEERKTGEEEGEEEEKEEE
GKEDKKIVMEETEEKAGEVQEKEASGIQEETTVEPQEVTASMIRLETQITDSQSITSGIFPKTQRGSKSK
LSLQLEDAETDELLRDLSTQIEFLDLDQISPEEQQISSPERQPSGELEEKTDRMPQDELGQERRDLEPEN
REEGQERRVSDIQSKAGISRESLVSSTTEDILFQKDKSTPVYPLTMTWSFGWNSSLPVYYIREERQRVLL
YVCAHTAIIYNVFRNNQYHLQGHANIISCLCVSEDRRWIATADKGPDCLVIIWDSFTGIPVHTIFDSCPE
GNGIMAMAMTHDAKYLATISDAEVQKVCIWKWTLAVETPACTLELPTEYGVQNYVTFNPTNNKELVSNSK
TRAIYYAWYEERDTLAHSAPLLTEKTFNKLVGKFSQSIFHLNLTQILSATMEGKLVVWDIHRPPSSASTF
LGFPYIKPCKLVHLQKEGITVLTTIDSYIVTGDIKGNIKFYDHTLSIVNWYSHLKLGAIRTLSFSKTPAT
PPTEKSNYPPDCTLKGDLFVLRNFIIGTSDAAVYHLTTDGTKLEKLFVEPKDAICAISCHPYQPLIAIGS
ICGMIKVWNYENKQYLFSRVFEKGFGVQSLTYNPEGALLGAGFTEGTVYILDAMSLENESPEPFKYSRTS
VTHISFSHDSQYMATADRSFTVAVYMLVVRNGQRVWEYLARLRSHRKSIRSLLFGVYLDSNEPRLLSLGT
DRLLIEYDLLRSYKDHLEVLDIHHTDQGCYPTCMVWYPPLTRELFLLICNSGYKVKLFNATTKMCRKTLL
GPAYGSPIEQTQVLPVRSMAELQKRYLVFINRDKLGLQILPVDGNPHKTSAIVCHPNGVAGMAVSYDGCY
AFTAGGHDRSVVQWKITLSVLEAAVSLGGEDLTPFYGLLSGGREGKFYRELEDYFYYSQLRSQGIDTMET
RKVSEHICLSELPFVMRAIGFYPSEEKIDDIFNEIKFGEYVDTGKLIDKINLPDFLKVYLNHKPPFGNTM
SGIHKSFEVLGYTNSKGKKAIRREDFLRLLVTKGEHMTEEEMLDCFASLFGLNPEGWKSEPATCSVKGSE
ICLEEELPDEITAEIFATEILGLTISEDSGQDGQ

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_144668

ORF Size: 3462 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_144668.2

RefSeq Size: 3768 bp

RefSeq ORF: 3450 bp

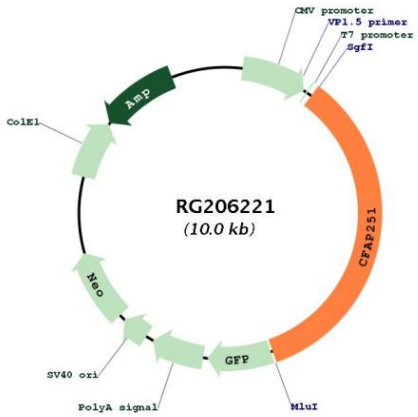
Locus ID: 144406

UniProt ID: Q8TBY9

Cytogenetics: 12q24.31

Gene Summary: This protein encoded by this gene belongs to the WD repeat-containing family of proteins, which function in the formation of protein-protein complexes in a variety of biological pathways. This family member appears to function in the determination of mean platelet volume (MPV), and polymorphisms in this gene have been associated with variance in MPV. Alternative splicing of this gene results in multiple transcript variants. [provided by RefSeq, Sep 2011]

Product images:



Circular map for RG206221