

Product datasheet for **RG222534**

FIGN (NM_018086) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	FIGN (NM_018086) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	FIGN
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RG222534 representing NM_018086
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGATCAGTAGCACCAGTGTATGGCTGAAGATGCAGTGGACGCCAGAGCATGCCAGTGGCCAGAAC
 AGCACTTTGACATCACCTCAACCACTCGGTCTCCTGCCACAAAAGTTGAAGCCTACAGAGGTCATCTGCA
 GCGCACCTATCAGTACGCCTGGGCGAATGATGACATATCTGCTCTGACTGCATCCAACTACTAAAAA
 TATGCAGAGAAGTATCCGGCATTGGGAAGTCTGTGGACCGACCCGTAAGTCACTGCAACTATCCGGACA
 CACCATCAGGACTAGTGAACGGTCGAAAAATGAAAGTGAACCCTGGCAGCCTTCCTTGAATTCAGAAGC
 TGTTTATCCCATGAAGTGTTCGGATGTTACTGCTGCCAGCAAAGCTGGAGTCACTCAGCCCTCCCT
 CCAGCAGATGTCTCTGCGAGTATAGGAAGCTCTCCTGGGTAGCCAGCAACCTGACAGAACCTAGTTATT
 CAAGTAGTACCTGTGGAAGCCACTGTACCCAGTCTTCATGCAGGGCTCCCATCTCAGGAATATGCCCC
 AGGATACAACGGATCATATTTGCATTCTACTTATAGTAGCCAGCCAGCACCTGCACCTTCCTCACCTCAT
 CCGTCTCCTTTGCATAGCTCTGGGCTACTACAGCCCCACCACCCTCCTCCGCCACCAGCCTTGGTCC
 CAGGCTACAATGGGACTTCTAACCTCTCCAGTTACAGCTATCCGTCTGCTAGCTATCCTCCTCAGACTGC
 TGTGGGTCTGGGTACAGCCCTGGGGGGCACCCTCCGCTTCAGCGTACCTGCCTTCAGGAATTCCT
 GCTCCACCCCTACCCCCACCCTGTTCTGGCTACACCTACCAGGGCCATGGTTTGACACCTATTG
 CACCGTCGGCTCTGACAAACAGTTCAGCAAGTCTCTCAAAGGAAAGCTTTCTACATGGCAGGGCAAGG
 AGATATGGACTCCAGTTATGAAATTACAGCTATGGCCACAGAGATCTACACAGAGTCTATGTACAGA
 ATGCCCCACAACAGCATTCAAACACAATCGGGGGAATGGCTTTGACAGAAGTGTGAAACATCATCCT
 TAGCATTTAAGCCAACGAAGCAGCTAATGTCCTCTGAACAGCAAAGGAAATTCAGCAGCCAGTCCAGTAG
 GGCTCTGACCCCTCCTTCTACAGTACTGCTAAAATTCATTGGGATCAAGATCCAGTGAATCCTTTGGG
 AAGTACACATCGCCAGTAAAGTGAAGTATGGGACGAGCACAGGCGAGTCTCTCTCACCAATGCAAG
 GCCCTGGACTCCGTGAGCTACCTCATCAACCACTCTGTGGACGAGCAACTGAAGAATACTGACACGCA
 CCTCATCGACCTGGTAACCAATGAGATTACACCAAGGACCTCCAGTGGACTGGAATGACATTGCTGGT
 CTCGACCTGGTGAAGGCTGTCATTAAAGAGGAGGTTTTATGGCCAGTGTGAGGTCAGACGCGTTCAGTG
 GACTGACGGCCTTACCTCGGAGCATCTTTTATTTGACCTCGGGGACAGGCAAACATTATTGGGCAG
 ATGCATCGCTAGTCAGCTGGGGCCACATTTTCAAATGCGGTTCTGGACTAGTCGCAAGTGGTTA
 GGAGAAGCAGAGAAAATTATCCATGCCTCTTTTCTGTGGCCAGGTGTCGCCAGCCCTCGGTGATTTTTG
 TTAGTGACATTGACATGCTTCTCCTCTCAAGTGAATGAGGAACATAGTCCAGTCAAGTCCGATGAGAAC
 CGAATTTCTGATGCAACTGGACTGTACTAATTCGGCTGAGGACCAAATCGTAGTAATTTGTGCCACC
 AGTAAACCAGAAGAAATAGATGAATCCCTTCGGAGGTAATTCATGAAACGACTTTTAAATCCCACTTCCTG
 ACAGCACAGCGAGGCCACAGATAATAGTACAACGCTCTCACAGCACAATTAAGTGTCTCAATGACAAGGA
 GTTTGCACTGCTCGTCCAGCGCACAGAAGGCTTTTCTGGACTAGATGTGGCTCATTTGTGTCAGGAAGCA
 GTGGTGGGCCCTCCATGCCATGCCAGCCACAGACCTTCAGCCATTATGCCAGCCAGTTGAGGCCCG
 TTACATATCAAGACTTTGAAAATGCTTTCTGCAAGATTCAGCCTAGCATATCTCAAAGGAGCTTGATAT
 GTATGTTGAATGGAACAAAATGTTTGGTTGCAGTCAG

AG**CGGACCC**ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG222534 representing NM_018086
 Red=Cloning site Green=Tags(s)

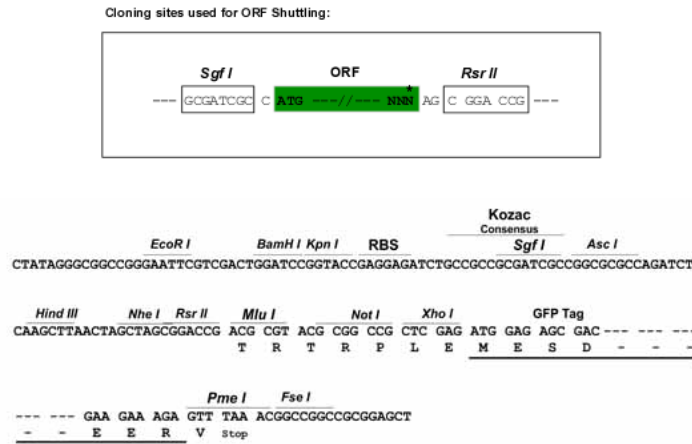
MISSTSVYGLKMQWTPHAQWPEQHFDITSTTRSPAHKVEAYRGHLQRTYQYAWANDDISALTASNLLKK
 YAEKYSGILEGPVDRPVL SNYS DTPSGLVNGRKNSEPWQPSLNSEAVYPMNCVPDVITASKAGVSSALP
 PADVSASIGSSPGVASNLTEPSYSSTCGSHTVPSLHAGLPSQEYAPGYNGSYLHSTYSSQPAPALPSPH
 PSPLHSSGLLQPPPPPPPPALVPGYNGTSNLSYSYPSASYPPTAVGSGYSPGGAPPPPSAYLPSGIP
 APTPLPPTTVPGYTYQGHGLTPIAPSALTNSSASSLKRKAFYMGQGDMDSSYGNYSYQQRSTQSPMYR
 MPDNSISNTNRNGFDRSAETSSLAFAKPTKQLMSSEQQRKFSSQSSRALTPPSYSTAKNSLGRSSESFG
 KYTSPVMSEHGDEHRQLLSHPMQGGLRAATSSNHSVDEQLKNTDTHLIDLVTNEIITQGPVWDNDIAG
 LDLVKAIVKEEVLWVLRSDAFSGLTALPRSILLFGRGTGKTLGRCIASQLGATFFKIAGSGLVAKWL
 GEAEKIIHASFLVARCRQPSVIFVSDIDMLSSQVNEEHSPVSRMRTEFLMQLDVTLSAEDQIVVICAT
 SKPEEIDESLRRYFMKRLLIPLPDSTARHQIIVQLLSQHNYCLNDKEFALLVQRTEGFGSLDVAHLQCEA
 VVGPLHAMPATDLSAIMPSQLRPVTYQDFENAFCKIQPSISQKELDMYVEWNKMFGCSQ

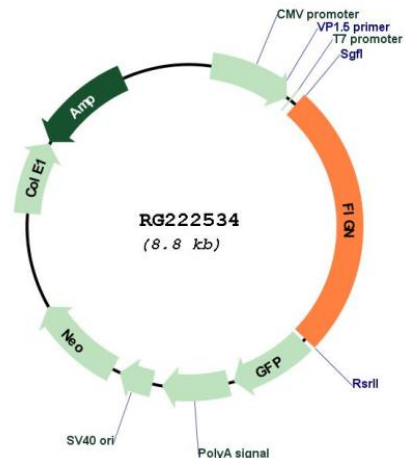
SGPTRRRLE - GFP Tag - V

Restriction Sites:

SgfI-RsrII

Cloning Scheme:



Plasmid Map:


ACCN: NM_018086

ORF Size: 2277 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_018086.4](#)

RefSeq Size: 4535 bp

RefSeq ORF: 2280 bp

Locus ID: 55137

UniProt ID: [Q5HY92](#)

Cytogenetics: 2q24.3

Domains: AAA

Gene Summary: ATP-dependent microtubule severing protein. Severs microtubules along their length and depolymerizes their ends, primarily the minus-end, that may lead to the suppression of microtubule growth from and attachment to centrosomes. Microtubule severing may promote rapid reorganization of cellular microtubule arrays and the release of microtubules from the centrosome following nucleation. Microtubule release from the mitotic spindle poles may allow depolymerization of the microtubule end proximal to the spindle pole, leading to poleward microtubule flux and poleward motion of chromosome.[UniProtKB/Swiss-Prot Function]