

## Product datasheet for **RC222534**

### **FIGN (NM\_018086) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	FIGN (NM_018086) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	FIGN
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>RC222534 representing NM\_018086  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGATCAGTAGCACCAGTGTATGGCTTGAAGATGCAGTGGACGCCAGAGCATGCCAGTGGCCAGAAC  
 AGCACTTTGACATCACCTCAACCACTCGGTCTCCTGCCACAAAAGTTGAAGCCTACAGAGGTCATCTGCA  
 GCGCACCTATCAGTACGCCTGGGCGAATGATGACATATCTGCTCTGACTGCATCCAACTACTAAAAAAA  
 TATGCAGAGAAGTATCCGGCATTGGGAAGTCTGTGGACCGACCCGTAAGTCACTGCAACTATCCGGACA  
 CACCATCAGGACTAGTGAACGGTCGAAAAATGAAAGTGAACCCCTGGCAGCCTTCTTGAATTCAGAAGC  
 TGTTTATCCCATGAAGTGTTCGGATGTTACTGCTGCCAGCAAAGCTGGAGTCACTTCCAGCCCTCCCT  
 CCAGCAGATGTCTCTGCGAGTATAGGAAGCTCTCTGGGGTAGCCAGCAACCTGACAGAACCTAGTTATT  
 CAAGTAGTACCTGTGGAAGCCACACTGTACCCAGTCTTCATGCAGGGCTCCCATCTCAGGAATATGCCCC  
 AGGATACAACGGATCATATTTGCATTCTACTTATAGTAGCCAGCCAGCACCTGCACCTTCTTCCACCTCAT  
 CCGTCTCCTTTGCATAGCTCTGGGCTACTACAGCCCCACCACCCTCTCCGCCACCAGCCTTGGTCC  
 CAGGCTACAATGGGACTTCTAACCTCTCCAGTTACAGCTATCCGTCTGCTAGCTATCCTCCTCAGACTGC  
 TGTGGGGTCTGGGTACAGCCCTGGGGGGCACCCTCCGCTTCCAGCGTACCTGCCTTCCAGGAATTCCT  
 GCTCCACCCCTTACCCCCACCCTGTTCTGGCTACACCTACCAGGGCCATGGTTTGACACCTATTG  
 CACCGTCGGCTCTGACAAACAGTTCAGCAAGTCTCTCAAAGGAAAGCTTTCTACATGGCAGGGCAAGG  
 AGATATGGACTCCAGTTATGGAATTACAGCTATGGCCACAGAGATCTACACAGAGTCTATGTACAGA  
 ATGCCCCACAACAGCATTCAAACACAAATCGGGGGAATGGCTTTGACAGAAGTGTGAAACATCATCCT  
 TAGCATTTAAGCCAACGAAGCAGCTAATGTCCTCTGAACAGCAAAGGAAATTCAGCAGCCAGTCCAGTAG  
 GGCTCTGACCCCTCCTTCTACAGTACTGCTAAAAATTCATTGGGATCAAGATCCAGTGAATCCTTTGGG  
 AAGTACACATCGCCAGTAAAGTGAAGTATGGGACGAGCACAGGCGAGTCTCTCTCACCAATGCAAG  
 GCCCTGGACTCCGTGAGCTACCTCATCAACCACTCTGTGGACGAGCAACTGAAGAATACTGACACGCA  
 CCTCATCGACCTGGTAACCAATGAGATTATCACCAAGGACCTCCAGTGGACTGGAATGACATTGCTGGT  
 CTCGACCTGGTGAAGGCTGTCATTAAAGAGGAGGTTTTATGGCCAGTGTGAGGTGAGACGCGTTCAGTG  
 GACTGACGGCCTTACCTCGGAGCATCTTTTATTTGACCTCGGGGACAGGCAAACATTATTGGGCAG  
 ATGCATCGCTAGTCAGCTGGGGCCACATTTTCAAATGCCGGTCTGGACTAGTCGCAAGTGGTTA  
 GGAGAAGCAGAGAAAATTATCCATGCCTCTTTTCTGTGGCCAGGTGTCGCCAGCCCTCGGTGATTTTTG  
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 CGAATTTCTGATGCAACTGGACACTGTACTAATTCGGCTGAGGACCAAATCGTAGTAATTTGTGCCACC  
 AGTAAACCAGAAGAAATAGATGAATCCCTTCGGAGGTAATTCATGAAACGACTTTTAAATCCCACTTCTG  
 ACAGCACAGCGAGGCCACAGATAATAGTACAACCTGCTCTCACAGCACAATTAAGTGTCTCAATGACAAGGA  
 GTTTGCACTGCTCGTCCAGCGCACAGAAGGCTTTTCTGGACTAGATGTGGCTCATTTGTGTCAGGAAGCA  
 GTGGTGGGCCCTCCATGCCATGCCAGCCACAGACCTTTCAGCCATTATGCCAGCCAGTTGAGGCCCG  
 TTACATATCAAGACTTTGAAAATGCTTTCTGCAAGATTCAGCCTAGCATATCTCAAAGGAGCTTGATAT  
 GTATGTTGAATGGAACAAAATGTTTGGTTGCAGTCAG

**AGCGGACCG**ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC  
 TGGATTACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC222534 representing NM\_018086  
 Red=Cloning site Green=Tags(s)

MISSTSVYGLKMQWTPEHAQWPEQHFDITSTTRSPAHKVEAYRGHLQRTYQYAWANDDISALTASNLLKK  
 YAEKYSGILEGPVDRPVL SNYS DTPSGL VNGRKNSEPWQPSLNSEAVYPMNCVPDVITASKAGVSSALP  
 PADVSASIGSSPGVASNLTEPSYSSTCGSHTVPSLHAGLPSQEYAPGYNGSYLHSTYSSQPAPALPSPH  
 PSPLHSSGLLQPPPPPPPPALVPGYNGT SNLSSYSYPSASYPPQTAVGSGYSPGGAPPPPSAYLPSGIP  
 APTPLPPTTVPGYTYQGHGLTPIAPSALTNSSASSLKRKAFYMAGQGMDSSYGNYSYGQQRSTQSPMYR  
 MPDNSISNTNRGNDFRDAETSSLAFAKPTKQLMSSEQQRKFSSQSSRALTPPSYSTAKNSLGRSSSEFG  
 KYTSPVMSEHGDEHRQLLSHPMQGGLRAATSSNHSVDEQLKNTDTHLIDLVTNEIITQGPPVDWNDIAG  
 LDLVKAIVKEEVLWVLRSDAFSGLTALPRSILLFGRGTGKTLGRCIASQLGATFFKIAGSGLVAKWL  
 GEAEKIIHASFLVARCRQPSVIFVSDIDMLSSQVNEEHPVSRMRTEFLMQLDVTLSAEDQIVVICAT  
 SKPEEIDESLRRYFMKRLLIPLPDSTARHQIIVQLLSQHNYCLNDKEFALLVQRTEGFSGLDVAHLCOEA  
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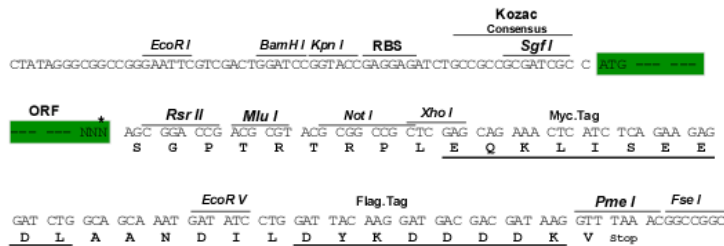
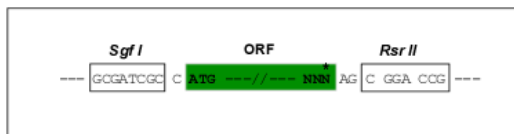
SGPTRRRLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk8040\\_e02.zip](https://cdn.origene.com/chromatograms/mk8040_e02.zip)

**Restriction Sites:** SgfI-RsrII

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_018086

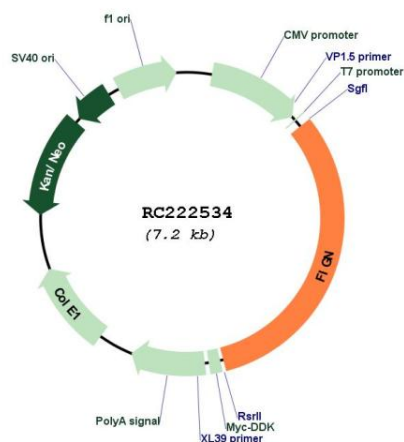
**ORF Size:** 2277 bp

**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](#)

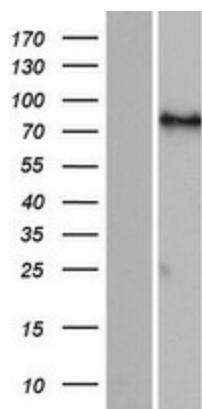
**OTI Annotation:** This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_018086.4</a>
<b>RefSeq Size:</b>	4535 bp
<b>RefSeq ORF:</b>	2280 bp
<b>Locus ID:</b>	55137
<b>UniProt ID:</b>	<a href="#">Q5HY92</a>
<b>Cytogenetics:</b>	2q24.3
<b>Domains:</b>	AAA
<b>MW:</b>	82 kDa
<b>Gene Summary:</b>	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]

Product images:



Circular map for RC222534



Western blot validation of overexpression lysate (Cat# [LY413328]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC222534 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).