

## Product datasheet for RC202221

### FIP200 (RB1CC1) (NM\_014781) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	FIP200 (RB1CC1) (NM_014781) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	FIP200
Synonyms:	ATG17; CC1; FIP200; PPP1R131
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC202221 representing NM_014781 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGAAGTTATATGTATTTCTGGTTAACTGGAACACTCTAACATTTGACACTGAACTTACAGTGCAAA  
CTGTGGCAGACCTTAAGCATGCCATTCAAAGCAAATACAAGATTGCTATTCAACACCAGGTGCTGGTGGT  
CAATGGAGGAGAATGCATGGCTGCAGATCGAAGAGTGTGTACCTACAGTGTGGGACGGATACAAATCCA  
ATTTTTCTTTTTAACAAAGAAATGATCTTATGTGATCGTCCACCTGCTATTCCTAAAACCTACCTTTTCGA  
CAGAAAATGACATGGAATAAAAGTTGAAGAATCTTTATGATGCCTGCAGTTTTTCATACTGTTGCTTC  
AAGGACACAGCTTGCATTGGAATGTATGAAGTTGCCAAGAACTTTGTTCTTTTGTGAAGGTCTTGTA  
CATGATGAACATCTTCAACACCAAGGCTGGGCTGCAATCATGGCCAACCTGGAGGACTGTTCAAATTCAT  
ACCAAAAGCTACTTTCAAGTTTGAAGTATTTATTCAAATTAATCTGCAGTCCATAGAAGACATCAAGTT  
AAAACCTACTCATTTAGGAACCTGCAGTTTCAGTAATGGCCAAGATTCCACTGTTGGAGTGCCTAACCAGA  
CATAGTTACAGAGAATGTTTGGGAAGACTGGATTCTTTACCTGAACATGAAGACTCAGAAAAAGCTGAGA  
CGAAAAGATCCACTGAACTGGTGTCTCTCCTGATAGCTAGAACAACTAACGAATCTTTGTTAACCTC  
ATTTCCCAAGTCAGTGGAAATGTGTCCCAGATACCCGAGATGCTGAAAGTGGCAAAGAAATAGGGAA  
TCTTGTCAAAGTACTGTTTCATCAGCAAGATGAACTACGATTGACACTAAAGATGGTGATCTGCCCTTTT  
TTAATGTCTCTTTGTTAGACTGGATAAATGTTCAAGATAGACCTAATGATGTGGAATCTTTGGTCAGGAA  
GTGCTTTGATTCTATGAGCAGGCTTGATCCAAGGATTATTCGACCATTTATAGCAGAATGCCGTCAAACT  
ATTGCCAACTTGATAATCAGAATATGAAAGCCATTAAGGACTTGAAGATCGGCTCTACGCCCTGGACC  
AGATGATTGCTAGCTGTGGCCGACTGGTGAATGAACAGAAAGAGCTTGCTCAGGGATTTTATAGCTAATCA  
GAAGAGAGCTGAAAACCTAAAGGATGCATCTGTATTACCTGATTTATGCCTGAGTCACGCAAAATCAGTTG  
ATGATTATGTTGCAAAATCATAGAAAACGTTAGATATTAAGCAGAAGTGTACCACTGCCAAACAAGAAC  
TAGCAAAATAACCTACATGTCAGACTGAAGTGGTGTGCTTTGTAATGCTTCATGCTGATCAAGATGGAGA  
GAAGTTACAAGCTTTGCTCCGCCTCGTAATAGAGCTGTTAGAAAGAGTCAAAATTGTTGAAGCTCTTAGT



[View online »](#)

ACAGTTCCTCAGATGACTGCTTAGCTGTTGTTGAGGTTGAAGAAGAAAAATGTTCAAAAACTACA  
GGGAGTGGGCTGGTGTCTTAGTCAAAGATGAAAGAGATTATATGAAGCAGAAAAATCAAAAAGGGAATC  
CTTTGGGAAATATTTAGGAAGTCTTTTTAAGAAATCGTCTGTTTAGGGGACTGGACTCCTGGCCCCCT  
TCCTTTTGTACTCAAAGCCTCGAAAGTTTGACTGTGAACCTCCAGATATTTCAAAAAGATTTACAGT  
TTCTGCAATCATTTTGCCTTCGGAAGTTCAGCCATTCTCAGGGTCCCTTACTTTGTGACTTTGAACC  
TCTACACCAGCATGACTTGTCTACATAATTTGGTAAAAAGCAGCACAAAAGTTGGATGAAATGTCACAG  
ACCATTACAGATCTACTGAGTGAACAAAAGGCATCTGTGAGTCAGACATCCCCACAGTCTGCTTTCAC  
CAAGGATGGAAAGTACAGCAGGAATTACAACACTACTACCTCACCAGAACTCCTCCACCAGTCTGTTCA  
GGATCCCTTATGTCCTGCAGTTTGTCCCTTAGAAGAATTATCTCCAGATAGTATTGATGCACATACGTTT  
GATTTTAAAATATTCCCATCCAAACATAGAACAGACTATTCACCAAGTTTCTTAGACTTGGATTCA  
TAGCAGAAAGTCTGAATCAGATTTTATGTCTGCTGTGAATGAGTTTGAATAGAAGAAAAATTTGTCGTC  
TCCTAATCCTATAAGTGATCCACAAAGCCAGAAATGATGGTGAATCACTTTATTCATCAGTTATCAAT  
GCGATAGACAGTAGACGAATGCAGGATACAAATGTATGTGGTAAGGAGGATTTGGAGATCATACTTCTC  
TGAATGCCAGTTGAAAGATGTAGAGTTGTTGCCAAGACTCTCACTTCAGTATACAAACCATTAAGGA  
AGACCTTTGCCACTTTAGAACATTTGTACAAAAAGAACAGTGTGACTTCTCAAATTCATTAATGTACA  
GCAGTAGAAAAAGAAACATTATTGAAAAAGTAAATGTTCTCTGGAAATAACACTAAAAAGAAAAACATC  
AAAAAGAACTACTGTCTTTAAAAATGAATATGAAGGTAACCTGACGGACTAATAAGGAAACTGAAGA  
GAATGAAAACAAAATAAAAATTAAGGGGAGAGTTAGTATGCCTTGAGGAGGTTTTACAAAATAAGAT  
AATGAATTTGCTTTGGTTAAACATGAAAAAGAGCTGTAATCTGCCTGCAGAAATGAAAAGGATCAGAAGT  
TGTTAGAGATGGAAAATATAATGCACCTCTCAAAATTTGTAATTAAGAACTGAAGCAGTCACGAGAAAT  
AGTGTTAGAAGACTTAAAAAGCTCCATGTTGAAAATGATGAGAAGTTACAGTTATTGAGGGCAGAACTT  
CAGTCTTTGGAGCAAAGTCATCTAAAGGAATTAGAGGACACACTTCAGGTTAGGCACATACAAGAGTTG  
AGAAGGTTATGACAGACACAGAGTTTCTTTGGAGGAATTAAAAAAGGAAAAACCAAAATAATTAATCA  
AATACAAGAATCTCATGCTGAAATTATCCAGGAAAAAGAAAAACAGTTACAGGAATTAACACTCAAGGTT  
TCTGATTTGTCAGACACGAGATGCAAGTTAGAGGTTGAACTTGCCTTGAAGGAAGCAGAACTGATGAAA  
TAAAAATTTGCTGGAAGAAAGCAGAGCCAGCAGAAAGGAGACCTTGAAATCTCTTCTTGAACAAGAGAC  
AGAAAAATTTGAGAACAGAAATTAGTAACTCAACCAAAAGATTGAGGATAATAATGAAAATTATCAGGTG  
GGCTTAGCAGAGCTAAGAACTTTAATGACAATTGAAAAAGATCAGTGTATTTCCGAGTTAATTAGTAGAC  
ATGAAGAAGAATCTAATATACTTAAAGCTGAATTAACAAAGTAACATCTTGCATAACCAAGCATTGGA  
AATAGAAAAAACCTAAAAGAACAATAATTGAACTGCAGAGTAAATTGGATTGAGAATTGAGTGTCTT  
GAAAGACAAAAAGATGAAAAATTAACCAACAAGAAGAGAAATACGAAGCTATTATCCAGAACCTTGAGA  
AAGACAGACAAAAATTTGTCAGCAGCCAGGAGCAAGACAGAGAACAGTTAATTCAGAAGCTTAATTGTGA  
AAAAGATGAAGCTATTCAGACTGCCCTAAAAGAATTTAAATTTGGAGAGAGAAGTTGTTGAGAAAAGATTA  
TTAGAAAAAGTTAAACATCTTGAGAATCAATAGCAAAAAGTCTGCCATTGACTCTACCAGAGGAGATT  
CTTCAAGCTTAGTTGCTGAACTTCAAGAAAAGCTTCAAGGAAAAAGCTAAGTTTCTAGAACAACCTTGA  
AGAGCAAGAAAAAGAAAGAATGAAGAAATGCAAAATGTTGCAACATCTTGGATTGCGGAACAACAGACC  
AATTTTAACTGTTTTAACAAGAGAGAAAAATGAGAAAAGAAAACATAATAAATGATCTTAGTGATAAGT  
TGAAAAGTACAATGCAGCAACAAGAACGGGATAAAGATTTGATAGAGTCACTTTCTGAAGATCGAGCTCG  
TTTGCTTGAGGAAAAAGAAAAGCTTGAAGAAGAAGTCAGTAAGTTGCGCAGTAGCAGTTTGTCTTCA  
CCATATGTAGCTACAGCCCCAGAACTTTATGGAGCTTGTGCACCTGAACTCCAGGTGAATCAGATAGAT  
CCGCTGTGGAACAGCAGATGAAGGAAGAGTGGATTGAGCAATGGAGACAAGCATGATGTCTGTACAAGA  
AAATATTCATATGTTGTCTGAAGAAAAACAGCGGATAATGCTGTTAGAACGAACATTGCAATTGAAAGAA  
GAAGAAAAATAACGGTTAAATCAAAGACTGATGTCTCAGAGCATGTCTTCAGTATCTTCAAGGCATTCTG  
AAAAGATAGCTATTAGAGATTTTCAGGTGGGAGATTTGGTACTCATCCTAGACGAACCCATGACAA  
TTATGTGTTATTTACTGTTAGTCTACTTTATATTTTCTACATTCAGAGTCTCTACCTGCCCTGGATCTC  
AAACCAGGTGAGGTGCTTCAGGTGCATCTAGAAGACCCTGGGTACTCGGAAAAGTAATGAAAAAGAAAT  
ACTGTCAAGCCAAAAAGGCACAAAACAGATTTAAAGTTCTTTGGGACAAAAGTTTACAGAGTGAAGC  
CGTATCATGGAATAAGAAAGTA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC202221 representing NM\_014781  
 Red=Cloning site Green=Tags(s)

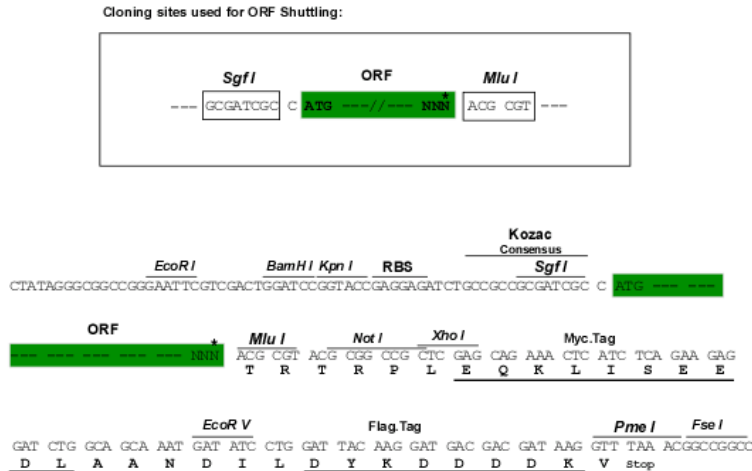
MKLYVFLVNTGTTLTFDELTVQTVADLKHAIQSKYKIAIQHQVLVVGEGECMAADRRVCTYSAGTDTNP  
 IFLFNKEMILCDRPPAIPKTTFTSTENDMEIKVEESLMMPAVFHTVASRTQLALEMYEVAKKLCSCFCEGLV  
 HDEHLQHGWAAIMANLEDCSNSYQKLLFKFESIYSNYLQSIEDIKLLKTLHGTAVSVMKIPLECLTR  
 HSYRECLGRLDSLPEHEDSEKAETKRSTELVLPDMPRTTNESSLTSFPKSVFHVSPDTADAESGKEIRE  
 SCQSTVHQDETTIDTKDGLPFFNVSLLDWINVQDRPNDVESLVRKCFDSMSRLDPRIIRPFIAECRQT  
 IAKLDNQNMKAIKGLEDRLYALDQMIASGRLVNEQKELAQGFLANQKRAENLKDASVLPDLCCLSHANQL  
 MIMLQNRKLLDIKQKCTTAKQELANLHVRLKWCCFVMLHADQDGEKQLALLRLVIELLERVKIVEALS  
 TVPQMYCLAVVEVVRKMF IKHYREWAGALVKDGKRLYEAESKRESFGKLFKRSFLRNRLFRGLDSWPP  
 SFCTQKPRKFDCELPDISLKDQLQSFQPCSEVQPFLLRVPLLCDFEPLHQHVLALHNLVAAAQSLDEMSQ  
 TITDLLSEQKASVSQTSQASAPRMESTAGITTTTSPRTPPPLTVQDPLCPAVCPLEELSPDSIDAHTF  
 DFETIPHPNIEQTIHQVSLDLSLAESPEPDFMSAVNEFVIEENLSSPNPISDPQSPPEMMEVSLYSSVIN  
 AIDSRRMQDTNVCGKEDFGDHTSLNVQLERCRVVAQDSHF SIQTIKEDLCHFRTFVQKEQCDFSNLKCT  
 AVEIRNIEKVKCSLEITLKEKHQKELLSLKNEYEGKLDGLIKEEENENKIKKLGELVCLLEVLQNKD  
 NEFALVKHEKEAVICLQNEKDQKLEMEMIMHSQNCIEKELKQSREIVLEDLKKLHVENDEKLQLLRAEL  
 QSLEQSHLKELEDLQVRHIQEFKVMTDHRVLSLEELKKNQIINQIQESHAETIQEKEKQLQELKLV  
 SDLSDRCKLELALKEAETDEIKILLEESRAQQKETLKSLLQETENLRTEISKLNQKIQDNENYQV  
 GLAELRLMTIEKDQCISELISRHEESNLLKAEKNKVTSLHNQAFEIEKNLKEQIIEQLSKLDSSEL  
 ERQKDEKITQEEKYEAIIONLEKDRQKLVSSQEQRQLIQKLNCEKDEAIQTALKEFKLEREVVEKEL  
 LEKVHLENQIAKSPADSTRGDSSSLVAELQEKLEEKAKFLEQLLEEQEKRNKNEEMQNVRTSLIAEQQT  
 NFNTVL TREKMRKENIINDLSDKLNKSTMQQERDKDLIESLSEDRARLLEKKKLEEEVSKLRSSSFVPS  
 PYYATAPELYGACAPELPGE SDRSAVETADEGRVDSAMETSMMSVQENIHMLSEEKQRIIMLLERTLQLKE  
 EENKRLNQRLMSQSMSSVSRHSEKIAIRDFQVGDVL IILDERHDNYVLFVSPTYFLHSESLPALDL  
 KPGE GASARRPWVLGKVMKEYCQAKKAQNRFKVPLGTFYRVKAVSWNKV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**



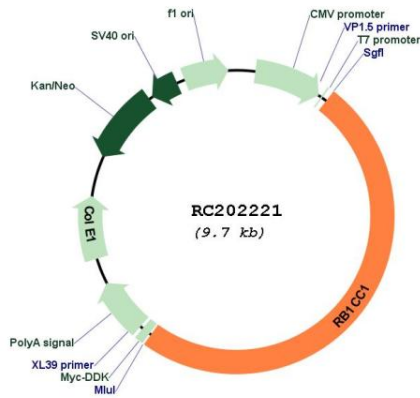
\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_014781

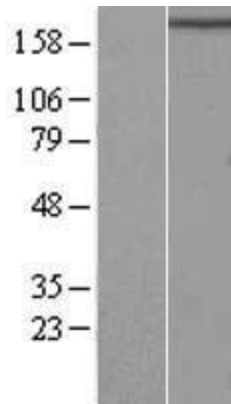
**ORF Size:** 4782 bp

<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	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_014781.2</a>
<b>RefSeq Size:</b>	6636 bp
<b>RefSeq ORF:</b>	4785 bp
<b>Locus ID:</b>	9821
<b>UniProt ID:</b>	<a href="#">Q8TDY2</a>
<b>Cytogenetics:</b>	8q11.23
<b>Protein Families:</b>	Druggable Genome
<b>MW:</b>	182.9 kDa
<b>Gene Summary:</b>	The protein encoded by this gene interacts with signaling pathways to coordinately regulate cell growth, cell proliferation, apoptosis, autophagy, and cell migration. This tumor suppressor also enhances retinoblastoma 1 gene expression in cancer cells. Alternative splicing results in multiple transcript variants encoding distinct isoforms. [provided by RefSeq, Nov 2009]

Product images:



Circular map for RC202221



Western blot validation of overexpression lysate (Cat# [LY415045]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC202221 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).