

## Product datasheet for **RC211611**

### **MYRIP (NM\_015460) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	MYRIP (NM_015460) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	MYRIP
Synonyms:	SLAC2-C; SLAC2C
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide  
Sequence:**

>RC211611 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGGGAGGAAGCTGGACCTGTCTGGTTTGACTGATGATGAAACAGAGCATGTTCTTCAGGTGGTTCAA  
 GAGACTTCAATCTTCGCAAAAAAGAAGAAGACGACTAAGTGAGCTGAAGCAGAAGCTGGATGAGGAAGG  
 CAGCAAGTGCAGCATCCTCTCGAAGCACCAGCAGTTTGTGGAGCACTGCTGCATGCGCTGCTGCTCGCCC  
 TTCACCTTCTCGTCAACACCAAGCGCCAGTGTGGAGATTGCAAATTCATGTCTGCAAGAGCTGCTGCT  
 CCTACCAGAAGCAGAAAAGGCTGGGTCTGCTGCGTCTGCCAGCAAGCGAGGCTTCTGAGGGCCCAATC  
 TCTGGAATGGTTCTACAATAATGTGAAGAGCCGCTTCAAGCGCTTGGCAGTGCCAAGGTTCTGAAGAAC  
 CTGTACAGGAAGCACCAGGCTGGAGAGTGGCGCTGCTTCGACATTCTAGGAGGAAGCCTTTTGGAGTCAA  
 ACCTGGAGAATGAAGGAAGCATTCTGGCAGTGATTCAACATTTATAGGCAGTCAGAAGGACATAGTGT  
 GATGGACACCTTGGCTGTGGCCCTACGGGTGGCTGAAGAGGCCATTGAGGAAGCAATTTCCAAGCAGAG  
 GCATATGGGGACAGCCTGGACAAGCAAAATGAGGCCAGTTACCTGCGGGACCACAAGGAGGAGCTAACTG  
 AGGAACCTGGCCACGACAATCCTGCAAGAAGATTATACGAAAACAGAAGAGCAAAAGTGAGCAGCAAGTGGA  
 AGAAGAGCCAGGATGGCCACATCCCAGAGTTGCAGCACAAAGGTGGCAGATGAGGGGACCTCAGCATCC  
 CCTGGAGGCTACCGTGTCCCGTGCCTCTGGAGGTCCCAGTCTGCCTTCTCAATCACTGGAGAAGAAG  
 CCCTGAAGACCCCTCCAGTGGAGACTCCATCGAGGCAGCAAGGGACCAAGGCCAACACCCGAGAGCAGA  
 GTCTGCTCTGCCAGCTGGAAGAGTGTGGACAGGCTGGATGAAACAAACCTGGCCCCAGTTTTGCAGAGC  
 CCCGACGGAACTGGGTGGCCCTGAAGGATGGCGCTCCACCCCAACCCGACTACTGGCCAAACCTAAGA  
 GCGGGACGTTTTCAGGCCCTGGAGTGGCCTCCAGTGTGGCATCTGCCTACGATGAGATGGCTCCGATAG  
 CGAGGAAGACTTTGACTGGAGTGAAGCCTTGAGCAAGCTGTGTCCAGGTCCCGGGCCCTGCCAGGAAC  
 CCCAGCCTCAGCCACACAGGCCAGAGCTCTGACCAAGGCCCATAGCTGCCTCCCCATCCTCTGCAC  
 TCTCCCCAACCTGAGGCCATGTGCTCTGACTCGGAGACCTCCTCCGAGGCTCTTCCCGAGAAGTTGG  
 GCACCAGGCCAGACTGTCTGGTGCAGAGGAAGGCCCCAGGAACCTGCAGCTGAGAAGATGCGCTTG  
 CATGGAGAGCTGGACGTGAACCTCAACCCCAAGTTGGCCAGCAGGGAGACCTCGGACAGCAGCGAGCCGG  
 AGGAGGCCCCACACCACAGACCAGCCGGGCCAGGAGGTGGAGAAGAGCCGATTGGGCTCAGAAGAGCC  
 AAGCAAAGAACCATCTTCCCGCAGCCAGCTCCGGATCTAGACACACATCAGGTGTCGGATGATTTA  
 TCAGAGACAGACATCAGCAATGAGGCTCGGGATCCCAGACTCTCACAGACACCACAGAGGAGAAACGGA  
 GAAACAGGCTGTACGAGTTAGCAATGAAAATGAGTGAAAAGGAGACTTCTCAGGGGAGGATCAGGAGTC  
 TGAGCCCAAGACAGAATCTGAGAACCAGAAGGAAAGTCTGTCTCTGAAGACAACAGCCAGAGTGTCCAG  
 GAAGAGCTGAAGAAGAAGTTTTCTGCTGTTTCTCTCTGCAACATCTCCACAGAAGTCTGAAAGTATCA  
 ATGCCACAGAGGAGTTGATAGCAGGATCTACAGGGCCCTGGGAGTCCCCACAAGTCCCTCCTGACAGACA  
 GAAGGGGATGTTTCTCGTGGGACAGACCAAGTGAAGTGGATGAGCAGCTGACTTCCCTGGAAGAAAAT  
 GTATACCTGGCAGCAGGCACTGTGTATGGACTGGAGACCCAGTACTGAGCTAGAAGATGCCGCCCCT  
 GCATCCACAGCGCACTGATGAGACCACTGGCGGATCTGGAGGACCAGGTGGCCACGGCTGCAGCCCA  
 AGTCCACCATGCTGAACCTCAGATTTTCAAGATTTGAGAGCCGGATTTTCAAGCCTGACCATTGCAAGGATTA  
 AACATAGCACCATGTGTGCGCTTACAAGAAGACGGGATCAGAAGCAAAGGACCCAGGTACAACCATAG  
 ATACATCAAGGCAGCAAAGGAGGAAACTGCCTGCTCCACCGGTGAAAGCTGAAAAAATTGAGACATCTTC  
 AGTGACTACCATTAACATTTAACCACAACCTTATTCTCAAGGCTCCTCAACAAACAGGACTAAGGAA  
 AGGAAAGGCACCACCAAGGATTTGATGGAGCCTGCTCTGGAGTCAGCTGTGATGTAC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC211611 protein sequence  
 Red=Cloning site Green=Tags(s)

MGRKLDL SGLT DDETEHVLQVVQRDFNLRKKEEERLSELKQKLDEEGSKCSILSKHQQFVEHCCMRCCSP  
 FTFLVNTKRQCGDCKFNVCKSCCSYQKHEKAWCCVCQARLLRAQSLWFYNNVKSFRKRFSGAKVLKN  
 LYRKHRL ESGACFDILGGS LFESNLENGESISGSDSTFYRQSEGHVMDTLAVALRVAEEAIEEAI SKAE  
 AYGDSL DKQNEASYLRDHKEELTEELAT TILQKIIRKQKSKSEQQVEEPEGWPHQPQSCSTKVADEGTSAS  
 PGGYRAPAALWRSQSAFSITGEEALKTPPVETPSRQPRDQGHPRAESALPSWKSVDRLDETNLAPVLQS  
 PDGNWVALKDGAPPPTRLLAKPKSGTFQALEVASSVASAYDEMGSDSEEDFDWSEALSKLCPRSRALPRN  
 PQPQPTQAQSSDQGPAAASPSSALSPNPEAMCSDSETSSAGSSREVGHQARLSWLQRKAPRNPAEKMRL  
 HGELDVNFPQLASRETS DSSEPEEAPHTDRRARRRRARLGSEEPSKEPSSPSAQLRDL DTHQVSDDL  
 SETDISNEARDPQTLTDTTEKRRNRLYELAMKMSEKETSSGEDQSEPKTESENQKESLSSEDNSQSVQ  
 EELKKKFSAVSLCNISTEVLKVINATEELIAGSTGPWESPQVPPDRQKGMFPRGTDQVRLDEQLTSEEN  
 VYLAAGTVYGLETQLTELEDAARCIHSGTDETHLADLEDQVATAAAQVHHAELQISDIESRISALTIAGL  
 NIAPCVRFTRRRDQKQRTQVQTIDTSRQRRKLPAPPVKAEKIETSSVTTIKTFNHNFI LQGSSTNRTKE  
 RKGTTKDLMEPALESAMVY

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: [https://cdn.origene.com/chromatograms/mk6599\\_f04.zip](https://cdn.origene.com/chromatograms/mk6599_f04.zip)

Restriction Sites: SgfI-MluI

Cloning Scheme:

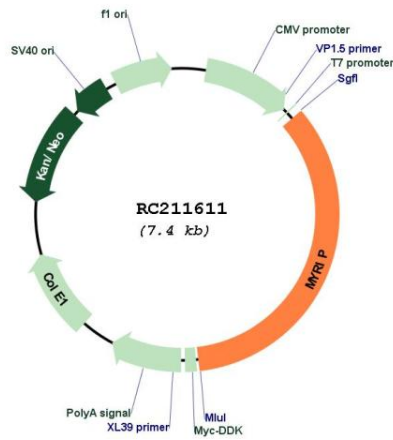
Cloning sites used for ORF Shuttling:



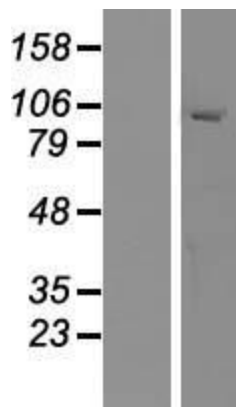
\* The last codon before the Stop codon of the ORF

<b>ACCN:</b>	NM_015460
<b>ORF Size:</b>	2577 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_015460.4</a>
<b>RefSeq Size:</b>	5046 bp
<b>RefSeq ORF:</b>	2580 bp
<b>Locus ID:</b>	25924
<b>UniProt ID:</b>	<a href="#">Q8NFW9</a>
<b>Cytogenetics:</b>	3p22.1
<b>Domains:</b>	MOBP
<b>MW:</b>	95.7 kDa
<b>Gene Summary:</b>	Rab effector protein involved in melanosome transport. Serves as link between melanosome-bound RAB27A and the motor proteins MYO5A and MYO7A. May link RAB27A-containing vesicles to actin filaments. Functions as a protein kinase A-anchoring protein (AKAP). May act as a scaffolding protein that links PKA to components of the exocytosis machinery, thus facilitating exocytosis, including insulin release (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RC211611



Western blot validation of overexpression lysate (Cat# [LY414532]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC211611 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).