

## Product datasheet for **RC204015**

### IMP4 (NM\_033416) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	IMP4 (NM_033416) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	IMP4
Synonyms:	BXDC4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC204015 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGCTGCGCCGCGAGGCCCGCTGCGCCGCGAGTACCTGTACCGCAAGGCCGGGAGGAGGCGCAGCGCT  
CAGCCCAGGAGAGGAAGGAGCGGCTGCGGCGCGCTGGAAGAAAACCGCCTGATCCACTGAGTTACG  
CCGAGAGGCTCTGGCCTTACAGGGTCCCTGGAGTTTGATGATGCTGGAGGTGAAGGTGTGACCAGCCAC  
GTGGATGATGAATACCGATGGCAGGAGTCGAGGATCCCAAGTTATGATCACTACCTCCGAGACCCCA  
GTTCCCGCCTCAAGATGTTTGCAAAGGAGCTGAAGCTGGTGTCCCGGGCGCCAGCGAATGAACCGAGG  
TCGACATGAAGTGGGGCACTGGTGCAGCCTGCAAAGCCAACGGCGTACCGATCTGCTGGTCGTTACAC  
GAGCATCGGGGCACACCTGTGGGCTCATCGTCAGCCACCTGCCCTTTGGTCTACTGCCTACTTACCGC  
TGTGCAATGTGGTCATGCGGCATGACATCCCAGACCTGGGCACCATGTCGGAGGCCAAGCCCCACCTCAT  
CACACACGGCTTCTCTCCCGCCTGGGCAAGCGGGTCTCTGACATCCTCCGATACCTATTTCCCGTGCC  
AAAGATGACAGCCACCGGTCATCACCTTCGAAACCAGGACGACTACATATCATTCCGGCACCATGTGT  
ATAAGAAGACAGACCACCGCAACGTGGAGCTCACTGAGGTCGGGCCCGCTTTGAGCTGAAGCTGTACAT  
GATCCGTCTGGGCACGCTGGAGCAGGAGCCACAGCAGACGTGGAGTGGCGCTGGCACCCTTACACCAAT  
ACCGCACGCAAGAGAGTCTTCTGAGCACCGAG

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



[View online »](#)

**Protein Sequence:** >RC204015 protein sequence  
Red=Cloning site Green=Tags(s)

MLRREARLRREYLRYKAREEAQRSAQERKERLRRALEENRLIPTELRREALALQGSLEFDDAGGEGVTSH  
 VDDEYRWAGVEDPKVMIITSRDPSSRLKMFAKELKLVFPGAQRMNRGRHEVGALVRACKANGVTDLLVVH  
 EHRGTPVGLIVSHLPFGPTAYFTLCNVVMRHDIPDLGTMSEAKPHLITHGFSSRLGKRVSILRYLFPVP  
 KDDSHRVIITFANQDDYISFRHHVYKKTDRHNVELTEVGPREFELKLYMIRLGTLEQEATADVEWRWHPYTN  
 TARKRVFLSTE

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk6423\\_c10.zip](https://cdn.origene.com/chromatograms/mk6423_c10.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_033416

**ORF Size:** 873 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\\_033416.3](#)

**RefSeq Size:** 1074 bp

**RefSeq ORF:** 876 bp

**Locus ID:** 92856

**UniProt ID:** [Q96G21](#)

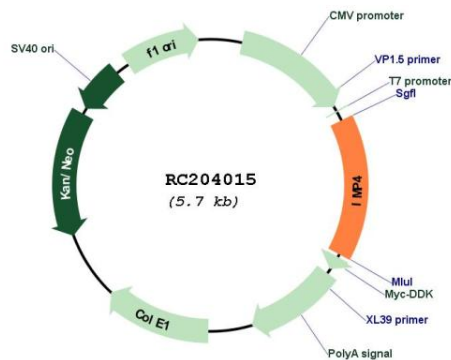
**Cytogenetics:** 2q21.1

**Domains:** Brix

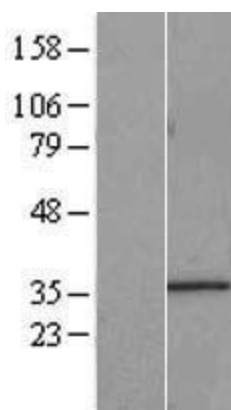
**MW:** 33.8 kDa

**Gene Summary:** The protein encoded by this gene, along with IMP3 and MPP10, is part of the 60-80S U3 small nucleolar ribonucleoprotein (U3 snoRNP) complex. This complex is necessary for the early cleavage steps of pre-18S ribosomal RNA processing. Several transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Feb 2016]

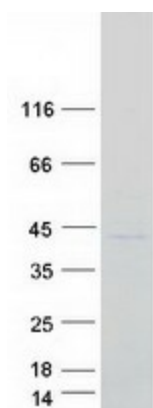
### Product images:



Circular map for RC204015



Western blot validation of overexpression lysate (Cat# [LY409541]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC204015 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified IMP4 protein (Cat# [TP304015]). The protein was produced from HEK293T cells transfected with IMP4 cDNA clone (Cat# RC204015) using MegaTran 2.0 (Cat# [TT210002]).