

Product datasheet for **RR214101**

Opalin (NM_001017386) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Opalin (NM_001017386) Rat Tagged ORF Clone
Tag: Myc-DDK
Symbol: Opalin
Synonyms: Tmem10
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RR214101 representing NM_001017386
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAGTTTTCTACTGAACCTTACACTGCCATTGAATACAACCTCCTCTCCAGTTGCCACGAGTGCCAAAG
CCACAGACTGTGGTCCGCTCTGTTGGACTGGCAGCTGGAATCCCATCCCTGCTGGCCACAGCTCTGCTGGT
AGCCTTGCTGTTACCCTGATCCAGCGAAGAAGAACCACCGATGAGCCCATCGAGGAGACTGAGGCTCCA
TGTGAAATTTCAGAACTCTATGACAATCCAAGATATCCGAGAATCCTAGGCAGTCACCCACGCATGAAA
TGAACCCACGAGGTGCTCAAGAAGGTCACATATATGTGAAGACTGTCTCAGGAAGTGAGGAGCCCTGCC
CGACACCTACCGTCTCTGAAGAAGTAGAGAGAAGAAGAGGCTTTGGTGGCTCGTGCCAGACTGAGC
CTGGAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RR214101 representing NM_001017386
Red=Cloning site Green=Tags(s)

MSFSLNFTLPLNTTSSPVATSAKATDCGPSVGLAAGIPSLLATALLVALLFTLIQRRRTTDEPIEETEAP
CEISELYDNPKISENPRQSPTHEMNPRGAQEGHIYVKTVSGSEEPLPDTYRPPEEVERRRGLWWLVPRLS
LE

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

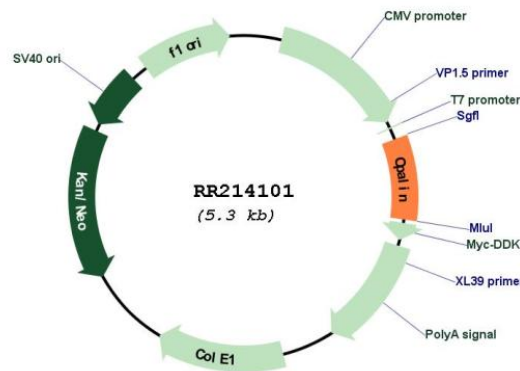
Restriction Sites: Sgfl-Mlul



Cloning Scheme:



Plasmid Map:



ACCN: NM_001017386

ORF Size: 426 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:	<ol style="list-style-type: none">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:	<u>NM_001017386.1, NP_001017386.1</u>
RefSeq Size:	2718 bp
RefSeq ORF:	429 bp
Locus ID:	361757
Cytogenetics:	1q54
MW:	15.7 kDa