

Product datasheet for **RR207185**

Otop2 (NM_001105851) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Otop2 (NM_001105851) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Otop2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RR207185 representing NM_001105851
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTCGGAAGAACTGGTCCCGCATCCCAATGAGAGCCTGCCGGGGCCTCGAGCCAGCCCCCGTGAGGTGT
 GGAAAAAGGGCGCCGTCTGCTGTCGGTGCTGTTGGCGGTCAACGTGCTGCTGCTCGCCTGCACGCTCAT
 CAGCGGGCGGGCCTTCAACAAGGTGGCTGTGTATGACACCGACGTGTTCCGCTGCTCACCACCATGATG
 CTGCTGGCAGCGCTGTGGATAATCTTCTACCTCCTCCGACCGCGCGCTCTCCAGACGGGTGCCTTACC
 GGGATGCTCATGTGGCCCCATCTGGTCCGAGGTGGGCTGGTGTGTTGGGATTTGCACCCTTGTCTAT
 GGATGTCTTCAAGACTGGCTACTACTCCAGTTTCTTTGAGTGCCAGTCCGCCATCAAGATCTGCACCCC
 ATCACCAAGCGGTGTTTGTCTTGTCCAGACTACTTTCTCTGGATCTCGGCTAAAGACTGTATCCACA
 CTCACCTGGACCTGACACGGTGGGGCTCATGTTACCCTCGCCACCAACCTAGCCATCTGGATGACAGC
 CGTAGTGGATGAGTCCGTGCACCGGCCACTCCTTCAGTGGCTTCCATGGCAACACCGCCACACCCGC
 CTCACCCCTGACTCAGAGCGTGCCGGTGGCACCCTGAAGGAGACCCGTGCCCTGCAGCAGGCCATCT
 GTCAGATCTTCCAGCAAGTTACTTCTACTTGTATCCCTTCAACATTGAGTACAGCCTCTTTGCTCCAC
 CATGCTGTACGTCATGTGGAAGAACGTAGGAAGGCTGCTGGCCTCCGCCACGGCCATGGCCACACACCA
 TCCAGGTCAGCCTTTTCCGGGAGACCTTTTTGCTGGCCCCGTCTTGGGCTGCTCCTCTTTGTGGTGG
 GATTGGCTGTCTTCATCTCTATGAGGTCCAGGTGAGTGGAGAGAGAGGCCACACCCAGCAGGCCCTGGT
 CATCTATTACAGCTTTAATATTGTCTGTCTGGGCTCATGACTCTGGTCAGCCTGAGTGGTTCAGTCATC
 TACCGTTTTGACCGTCGGGCCATGGACCATCATAAGAACCAACACGGACCCTGGATGTGGCCCTGCTGA
 TGGGCGCCGCCCTGGGCCAGTATGCCATCTCTACTACTCTATCGTGGCTGTGGTGGTGGGCTCACCCAG
 AGACCTGCTGGGGCACTCAACCTGTCCACGCTCTACTCATGATTGCCAGCACACCTTCCAGAACGTC
 TTCATCATCGAGAGCCTCCATCGGGGACCTCCTGGGGCTGAGCCTCGTGAACGCCCCGAGGAGCTCT
 ACCAAGGCATCACCTTTGCCAACCTGAGTGCTATCCACACCTTGCTTCTGCCACCCACTCCCAGGCT
 TGTGAGTCCCAACCCAGAAGGCCCTCAGGAAGCGGTGGCTATCGTCTCAGCCCCAGGTGCCACTGGCGA
 CGTCGGTGCCTGAAAGACATCTCTGTTTCTCTGCTTTGTAATGTCATCCTGTGGATCATGCCTGCCT
 TCGGCGCCCGCCGCACTTCAGCAATACCGTGGAGGTGGACTTTTATGGTTACTCCCTCTGGGCGGCCAT
 CGTCAACATCTGCCTGCCTTTCCGCATCTCTACAGAATGCACGCGGTCTCCAGTCTGCTGGAGGTCTAC
 GTGCTGTCC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR207185 representing NM_001105851
 Red=Cloning site Green=Tags(s)

MSEELVPHPNESLPGPRASPREVWKKGGRLLSVLLAVNVLLLAETLISGGAFNKVAVYDQVDFALLTTMM
 LLAALWIIFYLLRTARSPDAVPYRDAHAGPIWLRGGLVLFGICTLVMDVFKTGYYSSFFECQSAIKILHP
 ITQAVFVIVQTYFLWISAKDCIHTHLDLTRCGLMFTLATNLAIWMTAVVDESVDHQAHSFSGFHGNTSHTR
 LTPDSEAGGTAEEDPCPCSTAIQIFQQGYFYLYPFNIEYSLFASTMLYVMWKNVGRLLASAHHGHGHTP
 SRVSLFRETFFAGPVLGLLLFVVGAVFVILYEVQVSGERGHTQQALVIYYSFNIVCLGLMTLVLSGSVI
 YRFDRRAMDHHKNPTRLVDALLMGAALGQYAISSYSIVAVVVGSPRDLGALNLSHALLMIAQHTFQNV
 FIIESLHRGPPGAEPRETPPKELYQGIFANLSAIHTLPSCPPTPRLVSPNPEGPQEAIVSAPRCHWR
 RRCLKDISLFLLCNVILWIMPAFGARPHFSNTVEVDVFGYSLWAAIVNICLPFGIFYRMHAVSSLLEVV
 VLS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_001105851

ORF Size: 1689 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_001105851.1](#), [NP_001099321.1](#)

RefSeq Size: 2100 bp

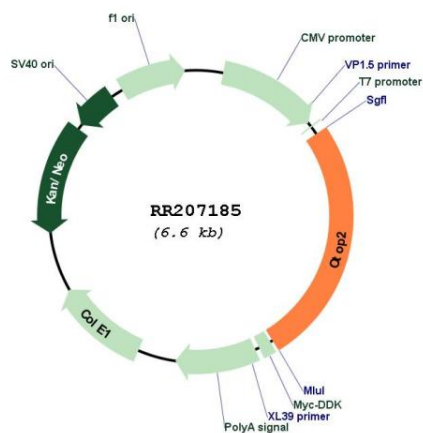
RefSeq ORF: 1692 bp

Locus ID: 287820

Cytogenetics: 10q32.1

MW: 62.4 kDa

Product images:



Circular map for RR207185