

Product datasheet for **RR207379**

Top3b (NM_001105861) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Top3b (NM_001105861) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Top3b
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>RR207379 representing NM_001105861
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGAAGACGGTGTCTCATGGTAGCAGAAAAGCCATCCCTGGCACAATCCATTGCCAAAATCCTCTCCCGAG
 GAAACATGTCCTCACACAAAGGGCTAAATGGGGCGTGTTCAGTGCACAAATACACAGGAACCTTTGCTGG
 CCAGCCCGTCCACTTCAAGATGACATCTGTCTGTGGTATGTGATGACACTGGATTTTCTGGGAAAGTAC
 AACAAAGTGGGATAAGGTAGATCCTGCAGAGTTATTAGCCAAAGCTCCAACAGAGAAAAAGGAAGCAAACC
 CCAAGCTGAACATGGTCAAGTTCCTGCAGGTGGAGGGCAGAGGCTGTGACTACGTCGTGCTGTGGCTGGA
 CTGTGACAAGGAAGGCGAGAATATTTGCTTTGAGGTCCTTGATGCCGTTCTGCCTGTCTGAATAATGCC
 CACAATGGTGAGAAGACAGTGTCCGGGCCAGGTTCAAGTCCATCACAGACACGGACATCTGCAATGCCA
 TGACCCGCTGACTGAGCCAGACCACAATGAGGCACTCTCGGTGGATGCCCGCCAGGAGCTAGACCTGCG
 CATCGGCTGTGCGTTCACTAGGTTTCAAACAAAGTATTTCCAGGAAAAATATGGCGACTTAGACAGCTCT
 CTATCTCCTTTGGGCCCTTGTGAGACTCCAACCTGGGATTCGTGTAGAAAAGACATGATAAAATCCAGT
 CCTTCAAACCAGAGACCTACTGGGTACTTCAGGCCAAGGTTTCACTGATAAAGAGGAGTCACTCCTTTT
 GGACTGGGACCGAGTTAGAGTTTTGACCCGGGAGATTGCACAGATGTTTTTAAACATGACAAAGCTAGAA
 AAAGAAGCTTGGGTGGAGGCTACAAGCAAGAAAGAAAAAGCCAAGCAGAGACCATTGCTCTGAACACTG
 TGGAGATGTTGCGTGTGGCCAGTTCAGCTCTGGGTATGGGACCACAGCATGCCATGCAAGTAGCTGAGAG
 ATTATACACACAGGGCTACATCAGCTACCCACGGACAGAAACCACACACTATCCCAGAACTTTGACCTG
 AAGGGCTCTTTACGACAACAGGCCAATCACCCATACTGGGCAGACTCGGTAAGCAGTTGTTAGCAGAAG
 GCATCAACCGCCCTCGGAAAGGTCACGATGCTGGTGACCATCCTCCGATCACACCAATGAAGTCAAGTAC
 AGAGGCTGAATTAGGAGGTGACGCTTGGCGACTCTACGAGTACATCACCAGACACTTCATCGCCACAGTG
 AGCCATGACTGCAAGTATCTCCAGAGCACCATCTCCTTCAAGATCGGGCCGAGCACTTCACATGATGG
 GAAAGACAGTTATTTCCCAGGCTTACAGAGATCATGCCTTGGCAGAGCGTGCCCTGGAAGAGAGTCT
 GCCACATGCCAGAAGGGCGATACCTTCACTGTGGGTGAGGTGAAGATGCTAGAGAAGCAGACGAGCCCC
 CCGGACTATCTGACTGAGGCTGAGCTCATACCCTCATGGAGAAGCATGGCATCGGGACGGATGCCAGTA
 TCCCTGTGCACATCAACAACATCTGCCAGCGCACTACGTACAGTGGAGAACGGCCCGGCTCAAGCC
 CACCAACCTCGGCATAGTTCTGGTGACCGCTACCACAAGATTGATGCAGAGCTGGTGTCTCCCACCATC
 CGCAGCGCAGTGGAGAAGCAGCTGAACCTTATTGCCAGGGCAAAGCCAACCTACCACCAGGTGCTGGGCC
 ACACCCTGGATATCTTCAAGAGAAAGTTCCACTACTTTGTTGATTCTATTGCTGGCATGGACGAGTTAAT
 GGAGGTATCCTTTTACCCTGGCTGCCACTGGCAAGCCCTCTCGCGCTGTGGGAAGTGCCATCGATT
 ATGAAGTATATCCAGGCCAAGCCAAGCCGCTGCACTGCTCCCACTGCGATGAGACCTACACCCTCCCC
 AGAATGGTACCATCAAGCTCTACAAGGAGCTGCGGTGCCATTGGATGACTTTGAACTGGTCTTGTGGTC
 CTCAGGCTCCCGGGGCAAGAGCTACCCCTCTGTCCCTACTGCTATAACCACCCACCCTTCCGAGACATG
 AAGAAAGGCATGGGCTGCAATGAGTGCACACACCTACGTGCCAGCACTCACTGAGTATGCTGGGCATTG
 GCCAGTGGTGGAGTGCAGAAATGGAGTCTGGTCTGGACCCACCTCCGGTCCAAGTGAAGGTGGC
 CTGCAATACATGCAGCGTAGTGGCACACTGCTTTGACAATGCCACCCAGTACGGGTGTCTGTGACACC
 TGCAACACCTGCGAGGCTGCCTTGTCTGATGTAGACTTCAACAAGGCCAAGTCTCCCTTCTGGCAACG
 AGACACAGCACACAGGCTGCATCTTGTGACACCGTCTTCCAGGAGCTGGTGGAGCTGAAGCATGCAGC
 CTCTGCCACCCATGCACCGAGGTGGTCTGGAAGGAGGCAGGGTCGTGGGCGGGCCGGGCGGAGA
 CCTCCAGGAAAGCCAAACCCAGGCGGCCAAAAGACAAGATGTCAGCCCTGGCTGCTTACTTTGTA

ACGCGTACGCGGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RR207379 representing NM_001105861
Red=Cloning site Green=Tags(s)

MKTVLMVAEKPSLAQSIKILSRGNMSSHKGLNGACSVHKYTGTFAGQPVHFKMTSVCGHVMTLDFLGKY
NKWDKVPAELFSQAPTEKKEANPKLNMVKFLQVEGRGCDYVVLWDCDKEGENICFEVLDAVLPVLNNA
HNGEKTVFRARFSSITDDICNAMTRLTEPDHNEALSVDARQELDLRIGCAFRFQTKYFQKYGDLSS
LISFGPCQTPTLGFVERHDKIQSFKPETYWVLQAKVHTDKEESLLLDWDRVRVFDREIAQMFLNMTKLE
KEAWVEATSKKEKAKQRPLALNTVEMLRVASSALGMGPQHMQVAERLYTQGYISYPRTEETHYPENFDL
KGSRLRQQANHPYWADSVKQLLAEGINRPRKGDAGDHPPITPMKSATEAELGGDAWRLYEYITRHFIAIV
SHDCKYLQSTISFRIGPEHFTECMGKTVISPGFTEIMPWQSVPLEESLPTCQKGDFTVGEVKMLEKQTS
PDYLTEAELITLMEKHGIGTDASIPVHINNICQRNYVTVENGRRLKPTNLGIVLVHGYHKIDAELVLP
RSAVEKQLNLIAQKANYHQVLGHTLDIFKRKFHYFVDSIAGMDELMEVSFSPLAATGKPLSRCGKCHRF
MKYIQAKPSRLHCSHCDETYTLPQNGTIKLYKELRCPLDDFELVLWSSGSRGKSYPLCPYCYNHPPFRDM
KKGMGCCNECTHPTCQHSLSMLGIGQCVECENGLVLDPTSGPKWKVACNTCSVVAHCFDNAHRVRSADT
CNTCEAALLDVDFNKAKSPLPGNETQHTGCI FCDTVFQELVELKHAASCHPMHRGGPGRRQGRGRARRR
PPGKPNRRPKDKMSALAAFYV

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

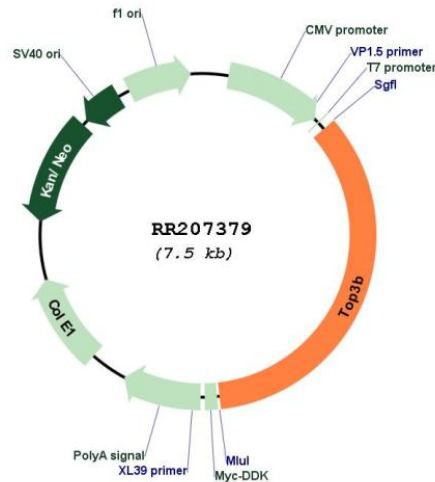
Restriction Sites: Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

Plasmid Map:


ACCN: NM_001105861

ORF Size: 2586 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_001105861.1](#), [NP_001099331.1](#)

RefSeq Size: 2966 bp

RefSeq ORF: 2589 bp

Locus ID: 287930

Cytogenetics: 11q23

MW: 96.9 kDa