

Product datasheet for **RR205999**

Olig1 (NM_021770) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Olig1 (NM_021770) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Olig1
Synonyms:	Olg1; oligo1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RR205999 representing NM_021770 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTA
ACTATGCGGTTTCCAGGGCGGTGTGAACGCGGCTCCCGGACCATGTTGCGGCCACAGCGGCCG
GAGATGTGCAGCTCGGGGCTTCGTTGTACGAGCTGGTGGGTTACAGGCAGCCACCCATCTCGTCATCCTC
CTCCACCTCCTCCTCTACCGCGTCCCTTCCCTAAACCTGCGCGTGAGAAGCCTGAAGCTCCGCTC
GCTGAGCCTCGGGACCAGCGCCGAGTCCGGGGCGCCCGGGCCGACGCCAAAGAGGAGCAGCAGCAGC
AGCAGCTGAGGCGCAAGATCAACAGCCGCGAGCGGAAGCGCATGCAGGACCTGAACCTGGCCATGGACGC
GCTGCGCGAAGTTATCCTACCCTACTCCGCGGCGCACTGCCAGGGCGCGCCGGGCCGTAAGCTCTCCAAG
ATCGCTACGCTGCTGCTCGCCCGCAACTACATCCTGCTGCTGGGAGCTCTCTGCAGGAGCTGCGCCGCG
CGCTCGGCGACGGTGCAGGACCCGCGCCCGCGCCTGCTCCTTGCGGGCCTGCCCTGCTGGCCGCCG
GCCGGGCTCTGTGCTGCTGGCACCGGGCGCCGTGGGACCCCCGAAACGCTGCGCCCCACCAAGTACCTG
TCTTAGCGCTCGACGAGCCACCGTGGCCAGTTCGCTCTCCCGCTGGTGGCGCGGAGAGCCCGGCC
TCTGCTCCTGTGCGGTGCAAGTCCCGCATCTGGTCCCGCCGGCCTGGGCTTGGCAGCGGTGCAGGC
TCAGTTCTCCAAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RR205999 representing NM_021770
Red=Cloning site Green=Tags(s)

MYAVSQARVNAAPATMLRPQRPQDVLGASLYELVGYRQPPISSSSSTSSSSTASLLPKPAREKPEAPL
 AEPRGPAPESGGARADAKKEEQQQQLRRKINSRERKRMQDLNLAMDALREVILPYSAAHCQGAPGRKLSK
 IATLLLARNYILLGSSSLQELRRALGDGAGPAAPRLLLAGLPLLAAPGSVLLAPGAVGPPETLRPTKYL
 SLALDEPPCGQFALPAGGAGSPGLCSCAVCKFPHLVPAGLGLAAVQAQFSK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_021770

ORF Size: 783 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_021770.4](#)

RefSeq Size: 2143 bp

RefSeq ORF: 786 bp

Locus ID: 60394

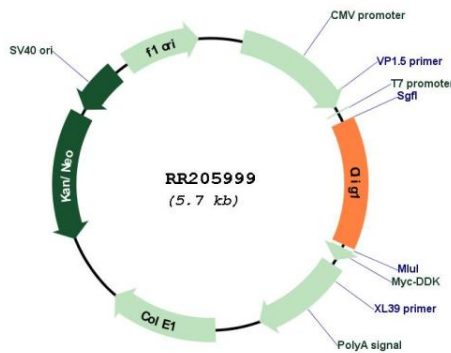
UniProt ID: [Q9WUQ3](#)

Cytogenetics: 11q11

MW: 27.2 kDa

Gene Summary: This gene is a member of the oligodendrocyte lineage gene family which encode basic helix-loop-helix transcription factors. Studies in mice show that it is coexpressed with Olig2 in neural progenitors, and has a role in the development and maturation of oligodendrocytes. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RR205999