

Product datasheet for **SC103224**

OLIG2 (NM_005806) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	OLIG2 (NM_005806) Human Untagged Clone
Tag:	Tag Free
Symbol:	OLIG2
Synonyms:	BHLHB1; bHLHe19; OLIGO2; PRKCBP2; RACK17
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL6</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_005806, the custom clone sequence may differ by one or more nucleotides

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AGGCTTTTCGGAGCGAGCTCCTCAAATCGCATCCAGATTTTCGGGTCCGAGGGAAGGAGGACCCTGCGAA
AGCTGCGACGACTATCTTCCCCTGGGGCCATGGACTCGGACGCCAGCCTGGTGTCCAGCCGCCCGTCGTC
GCCAGAGCCCGATGACCTTTTTCTGCCGGCCGGAGTAAGGGCAGCAGCGGCAGCGCCTTCACTGGGGG
ACCGTGTCTCGTCCACCCCGAGTACTGCCCGCCGGAGCTGAGCGCCGAGCTGCGCGGCGCTATGGGCT
CTGCGGGCGCGCATCCTGGGGACAAGCTAGGAGGCAGTGGCTTCAAGTCGTCCTCGTCCAGCACCTCGTC
GTCTACGTGTCGCGGGCTGCGTCGTCCACCAAGAAGGACAAGAAGCAAATGACAGAGCCGGAGCTGCAG
CAGCTGCGTCTCAAGATCAACAGCCGCGAGCGCAAGCGCATGCACGACCTCAACATCGCCATGGATGGCC
TCCGCGAGGTATGCCGTACGCACACGGCCCTTCGGTGCGAAGCTTCCAAGATCGCCACGCTGCTGCT
GGCGCGCAACTACATCCTCATGCTACCAACTCGCTGGAGGAGATGAAGCGACTGGTGAAGGAGATCTAC
GGGGGCCACCACGCTGGCTTCCACCCGTGCGCCTGCGGGCGCCTGGCGCACTCCGCGCCCTGCCGCCG
CCACCCGCGACCCGGCAGCAGCAGCGCACGCCGCACATCACCCGCGGTGCACCACCCATCCTGCCGCC
CGCCGCGCAGCGGTGCTGCCGCCGTGACGCCCGGCTGTGTCCAGCGCCTCTGTGCCGGATCCGGG
CTGCCGTGGTCCGCTCCATCCGTCCACCGCACGGCCTACTCAAGTCTCCGTCTGCTGCCGCGCCGCC
CGCTGGGGGCGGGGGCGGGCGGAGTGGGGCGAGCGGGGGCTTCCAGCACTGGGGCGGCATGCCCTGCC
CTGCAGCATGTGCCAGGTGCCGCCCGCACACCACAGTGTGGCTATGGGCGCCGCGAGCCTGCCGCGC
CTCACCTCCGACGCCAAGTGAAGCCGACTGGCGCCGGCGGCTTTCGGCGACAGGGGAGCCAGGGCCCGG
GGAAGCGAGGACTGCGCTGCGCTGGGCTCGGGAGCTCTGTCGCGAGGAGGG

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5' Read Nucleotide Sequence:	>OriGene 5' read for NM_005806 unedited ATCCTTCCCCCGCCGTTGNCGCATTGGGCGGTAGGCGGTACGGTGGGAGGTCTATATA AGCAGAGCTCATTTAGGTGACACTATAGAATAACAAGCTACTTGTCTTTTTGCAGCGGCC GCGAATTCGGCACGAGGCTCCCCTGAGGCTTTTCGGAGCGAGCTCCTCAAATCGCATCCA GATTTTCGGGTCGAGGGAAGGAGGACCCTGCGAAAGCTGCGACGACTATCTTCCCCTGG GGCCATGGACTCGGACGCCAGCCTGGTGTCCAGCCGCCGTCGTGCCAGAGCCCGATGA CCTTTTTCTGCCGCGCCGAGTAAGGGCAGCAGCGGCAGCGCCTTCACTGGGGGCACCGT GTCTTCGTCCACCCGAGTGACTGCCCGCGGAGCTGAGCGCCGAGCTGCCGCGCGCTAT GGGCTCTGCGGGCGCGCATCCTGGGGACAAGCTAGGAGGCAAGTGGCTTCAAGTCGTCTC GTCCAGCACCTCGTCGTCTACGTCGTGCGCGGCTGCGTCGTCCACCAAGAAGGACAAGAA GCAAATGACAGAGCCGGAGCTGCAGCAGCTGCGTCTCAAGATCAACAGCCGCGAGCGCAA GCGCATGCACGACCTCAACATCGCCATGGATGGCTCCGCGAGGTCATGCCGTACGCACA CGGCCCTTCGGTGCACAAGCTTTCCAAGATCGCCACGCTGCTGCTGGCGCGCAACTACAT CCTCATGCTCACCAACTCGTGGAGGAGATGAAGCGACTGGTGAAGCGAGATCTACGGGG CCACCACGCTGGCTTCCACCCGTCGGCTGCGGGCGCCTGGCGCACNNNGCGCCCTGCC CGCCGCCACCCGNGCACCCGGNAGCAGCAGCGCACGCCGCACATCACCCCGCGGTGCACCA CCCCATCTGGCGCCN
Restriction Sites:	NotI-NotI
ACCN:	NM_005806
Insert Size:	2500 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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:	NM_005806.1 , NP_005797.1
RefSeq Size:	2521 bp
RefSeq ORF:	972 bp
Locus ID:	10215
UniProt ID:	Q13516
Cytogenetics:	21q22.11
Domains:	HLH
Protein Families:	Druggable Genome, Transcription Factors

Gene Summary:

This gene encodes a basic helix-loop-helix transcription factor which is expressed in oligodendroglial tumors of the brain. The protein is an essential regulator of ventral neuroectodermal progenitor cell fate. The gene is involved in a chromosomal translocation t(14;21)(q11.2;q22) associated with T-cell acute lymphoblastic leukemia. Its chromosomal location is within a region of chromosome 21 which has been suggested to play a role in learning deficits associated with Down syndrome. [provided by RefSeq, Jul 2008]