

Product datasheet for **SC322126**

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:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene sequence for SC322126
 GGATGCTTATTATAGATCGACGCGACACCAGCGCCCGGTGCCAGGTTCTCCCCTGAGGCT
 TTTTCGGAGCGAGCTCCTCAAATCGCATCCAGATTTTCGGGTCCGAGGGAAGGAGGACCCT
 GCGAAAGCTGCGACGACTATCTCCCCTGGGGCCATGGAAGTCCGACGCCAGCCTGGTGTG
 CAGCCGCCCGTCGTCGCCAGAGCCCGATGACCTTTTCTGCCGGCCCGGAGTAAGGGCAG
 CAGCGGCAGCGCCTTCACTGGGGCACCCGTGCTCCTCGTCCACCCGAGTACTGCCCCGCC
 GGAGCTGAGCGCCGAGCTGCGCGGCGCTATGGGCTGTCGGGGCGCGCATCCTGGGGACAA
 GCTAGGAGGCAGTGGCTTCAAGTCACTCCTCGTCCAGCACCTCGTCTACGTCTCGTCCGGC
 GGCTGCGTCTCCACCAAGAAGGACAAGAAGCAAATGACAGAGCCGGAGCTGCAGCAGCT
 GCGTCTCAAGATCAACAGCCGCGAGCGCAAGCGCATGCACGACCTCAACATCGCCATGGA
 TGGCTCCGCGAGGTCATGCCGTACGCACACGGCCCTTCGGTGCCAAGCTTTCCAAGAT
 CACCACGCTGCTGCTGGCGCGCAACTACATCCTCATGCTCACCACCTCGTGGAGGAGAT
 GAAGCGACTGGTGAAGGAGATCTACGGGGGCCACCAGCTGGCTTCCACCCGTCGGCCTG
 CGGCGGCTGGCGCACTCCGCGCCCTGCCCGCCGCCACCGCGCACCCGGCAGCAGCAGC
 GCACGCCGCACATCACCCCGGCTGCACACCCCATCCTGCCGCCGCCCGCCGACGCGGC
 TGCTGCCGCCGCTGCAGCCGCGGCTGTGTCCAGCGCCTCTGCCCGGATCCGGGCTGCC
 GTCGGTCCGCTCAATCCGTCCACCGCACGGCCTACTCAAGTCTCCGTCTGCTGCCCGGGC
 CGCCCCGCTGGGGGGCGGGGGCGGCGGCGAGTGGGGCGAGCGGGGGCTTCCAGCACTGGGG
 CGGCATGCCCTGCCCTGCAGCATGTGCCAGGTGCCGCCGCCACCACCACGTGTCCGGC
 TATGGGCGCCGGCAGCCTGCCGCGCCTCACCTCCGACGCCAAGTGAAGCTACTGGCGCCG
 GCGCGTCTGGCGACAGGGGAGCCAGGGGCCGCGGGGAAGCGAGGACTGGCTGCGCTGG
 GCTCGGAGCTCTGTGCGGAGGAGGGGCGCAGGACCATGGACTGGGGGTGGGGCATGGTG
 GGGATTCCAGCATCTGCGAACCAGCAATGGGGCGCCACAGAGCAGTGGGGAGTGAAG
 GGGATGTTCTCTCCGGGACCTGATCGAGCGCTGTCTGGCTTTAACCTGAGCTGGTCCAGT
 AGACATCGTTTTATGAAAAGGTACCGCTGTGTGATTCTCACTAGAAGTCACTCCGACCC
 CCGACCCCACTCCGGGAAAAGATTCTAAAACTTCTTTCCCTGAGAGCGTGGCCTGAC
 TTGCAGACTCGGCTTGGGCAGCACTTCCGGGGGGGAGGGGGTGTATGGGAGGGGACAC
 ATTGGGGCCTTGCTCCTCTTCTCCTTTCTTGGCGGGTGGGAGACTCCGGGTAGCCGCAC
 TGCAGAAGCAACAGCCCGACCGCCCTCCAGGGTCGTCCCTGGCCAAAGCCAGGGGCC
 ACAAGTTAGTTGGAAGCCGCGTTCGGTATCAGAAGCGCTGATGGTCATATCCAATCTCA
 ATATCTGGGTCAATCCACACCCTTTAGAACTGTGGCCGTTCCCTCCTGTCTCTCGTTGA
 TTTGGGAGAATATGGTTTTCTAATAAATCTGTGGATGTTCTTCTTCAACAGTATGAGCA
 AGTTTATAGACATTAGAGTAGAACCCTTGTGGATTGGAATAACCCAAAAGTCCCGATT
 TCAGGGGCGGGTGCATTGTAGTTATTTTAAAATAGAAAATACCCACCGACTCATCT
 TTCCTTCTAAGCACAAAGTATTTGGTTATTTTGGTACCTGAGAACGTAACAGAAATTA
 AAAGGCAGTTGCTGTGAAAACAGTTTGGGTTATTTGGGGTCTGTTGGCTTTTTAAAAT
 TTTCTTTTTTGGATGTGTAATTTATCAATGATGAGGTAAGTGCGCAATGCTAAGCTGTT
 TGCTCACGTGACTGCCAGCCCCATCGGAGTCTAAGCCGGCTTTCCTCTATTTTGGTTTAT
 TTTTCCACGTTTAAACAAAATGGTAAACTCCTCCACGTGCTTCTGCGTTCCTGCGTTCG
 CCGCCTCGGCGCTGCCTGCGTTGCAAACTGGGCTTTGTAGCGTCTGCCGTGTAACACCCT
 TCCTCTGATCGCACCGCCCTCGCAGAGAGTGTATCATCTGTTTTATTTTGTAAAAACA
 AAGTGCTAAATAATTTTACTTGTGTTGGTTGCAAAAACGGAATAAATGACTGAGTGT
 TGAGATTTTAAATAAATTTAAAGCAAAAAAAAAAAAAAAAAA

Restriction Sites: Please inquire

ACCN: NM_005806

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).

OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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_005806.2 , NP_005797.1
RefSeq Size:	2505 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]