

## Recombinant Human OLIG2, GST-tagged

Cat. No. OLIG2-38H Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant Human OLIG2 was expressed as gst-tagged fusion protein by E.Coli and purified by GSH-sepharose.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>Description</b>	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.
<b>Storage</b>	The protein is stored in PBS buffer at -20 oC. Repeated freeze-thaw cycles should be avoided.
<b>Storage Buffer</b>	1M PBS (58mM Na2HPO4, 17mM NaH2PO4, 68mM NaCl, pH8. ) added with 100mM GSH and 1% Triton X-100, 15% glycerol.

### GENE INFORMATION

<b>Gene Name</b>	OLIG2 oligodendrocyte lineage transcription factor 2 [ Homo sapiens ]
<b>Official Symbol</b>	OLIG2

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<b>Synonyms</b>	OLIG2; oligodendrocyte lineage transcription factor 2; oligodendrocyte transcription factor 2; protein kinase C-binding protein 2; class B basic helix-loop-helix protein 1; class E basic helix-loop-helix protein 19; human protein kinase C-binding protein RACK17; basic domain, helix-loop-helix protein, class B, 1; oligodendrocyte-specific bHLH transcription factor 2; BHLHB1; OLIGO2; RACK17; PRKCBP2; bHLHe19
<b>Gene ID</b>	<a href="#">10215</a>
<b>mRNA Refseq</b>	<a href="#">NM_005806</a>
<b>Protein Refseq</b>	<a href="#">NP_005797</a>
<b>MIM</b>	<a href="#">606386</a>
<b>UniProt ID</b>	<a href="#">Q13516</a>
<b>Chromosome Location</b>	21q22.11
<b>Pathway</b>	Neural Crest Differentiation
<b>Function</b>	DNA binding; HMG box domain binding; RNA polymerase II distal enhancer sequence-specific DNA binding transcription factor activity; protein homodimerization activity

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