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Product datasheet for SC125546

BCL2 (NM_000633) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	BCL2 (NM_000633) Human Untagged Clone
Tag:	Tag Free
Symbol:	BCL2
Synonyms:	Bcl-2; PPP1R50
Mammalian Cell Selection:	None
Vector:	pCMV6-XL4
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_000633, the custom clone sequence may differ by one or more nucleotides

GAATTCCCGGGATATCGTCGACCCACGCGTCCGCTGGAGAGTGCTGAAGATTGATGGGATCGTTGCCTTA
TGCATTTGTTTTGGTTTTACAAAAAGGAAACTTGACAGAGGATCATGCTGTACTTAAAAAATACAACATC
ACAGAGGAAGTAGACTGATATTAACAATACTTACTAATAATAACGTGCCTCATGAAATAAAGATCCGAAA
GGAATTGGAATAAAAATTTCCTGCATCTCATGCCAAGGGGGAAACACCAGAATCAAGTGTTCCGCGTGAT
TGAAGACACCCCCTCGTCCAAGAATGCAAAGCACATCCAATAAAATAGCTGGATTATAACTCCTCTTCTT
TCTCTGGGGGCCGTGGGGTGGGAGCTGGGGCGAGAGGTGCCGTTGGCCCCCGTTGCTTTTCCTCTGGGAA
GGATGGCGCACGCTGGGAGAACGGGGTACGATAACCGGGAGATAGTGATGAAGTACATCCATTATAAGCT
GTCGCAGAGGGGCTACGAGTGGGATGCGGGAGATGTGGGCGCCGCGCCCCCGGGGGCCGCCCCCGCACCG
GGCATCTTCTCCTCCCAGCCCGGGCACACGCCCCATCCAGCCGCATCCCGGGACCCGGTCGCCAGGACCT
CGCCGCTGCAGACCCCGGCTGCCCCCGGCGCCGCCGCGGGGCCTGCGCTCAGCCCGGTGCCACCTGTGGT
CCACCTGACCCTCCGCCAGGCCGGCGACGACTTCTCCCGCCGCTACCGCCGCGACTTCGCCGAGATGTCC
AGCCAGCTGCACCTGACGCCCTTCACCGCGCGGGGACGCTTTGCCACGGTGGTGGAGGAGCTCTTCAGGG
ACGGGGTGAACTGGGGGAGGATTGTGGCCTTCTTTGAGTTCGGTGGGGTCATGTGTGTGGAGAGCGTCAA
CCGGGAGATGTCGCCCCTGGTGGACAACATCGCCCTGTGGATGACTGAGTACCTGAACCGGCACCTGCAC
ACCTGGATCCAGGATAACGGAGGCTGGGATGCCTTTGTGGAACTGTACGGCCCCAGCATGCGGCCTCTGT
TTGATTTCTCCTGGCTGTCTCTGAAGACTCTGCTCAGTTTGGCCCTGGTGGGAGCTTGCATCACCCTGGG
TGCCTATCTGGGCCACAAGTGAAGTCAACATGCCTGCCCCAAACAAATATGCAAAAGGTTCACTAAAGCA
GTAGAAATAATATGCATTGTCAGTGATGTACCATGAAACAAAGCTGCAGGCTGTTTAAGAAAAAATAACA
CACATATAAACATCACACACACAGACAGACACACACACACACAACAATTAACAGTCTTCAGGCAAAACGT
CGAATCAGCTATTTACTGCCAAAGGGAAA

View online »

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_000633 unedited
NGTTCACGTTAAAATTTGTAATAGACTCACTATAGGCGGCCGCGNAATCAGATCTGGTAC
CGGTCCGGAATTCCCGGGATATCGTCGACCCACGCGTCCGCTGGAGAGTGCTGAAGATTG
ATGGGATCGTTGCCTTATGCATTTGTTTTGGTTTTACAAAAAGGAAACTTGACAGAGGAT
TCATGCTGTACTTAAAAAATACAACATCACAGAGGAAGTAGACTGATATTAACAATACTT
ACTAATAATAACGTGCCTCATGAAATAAAGATCCGAAAGGAATTGGAATAAAAATTTCCT
GCATCTCATGCCAAGGGGGAAACACCAGAATCAAGTGTTCCGCGTGATTGAAGACACCCC
CTCGTCCAAGAATGCAAAGCACATCCAATAAAATAGCTGGATTATAACTCCTCTTCTTTC
TCTGGGGGCCGTGGGGTGGGAGCTGGGGCGAGAGGTGCCGTTGGCCCCCGTTGCTTTTCC
TCTGGGAAGGATGGCGCACGCTGGGAGAACGGGGTACGATAACCGGGAGATAGTGATGAA
GTACATCCATTATAAGCTGTCGCAGAGGGGCTACGAGTGGGATGCCGGAGAATGTTGGCG
CCGCGCCCCCGGGGGCCGCCCCCGCACCGGGCATCTTCTCCTCCCAGCCCGGGCACACGC
CCCATCCAGCCGCATCCCGGGACCCGGTCGCCAGGACCTCGCCGCTGCAGACCCCCGCTG
CCCNCGGCGCGGCCGCGGGGGCCTGCGCTCAGCCCGGTGCCACCCTGTGTCCACCTGACC
CTCGCCAGCCNGCGACGACTTCTCCGCCGCTACCGCCGCGACTTCGCCGAGATGTTCAGC
CAGCTGCACCTGACGCCTTTACCGCGCCGGGGACGCTTTGCACCGTGGGGTGGAAGAGCT
CTTCAGGNACGGGGTG

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_000633 unedited
CTGGGCCATTGGNGATGGCAACTTCCAGGNCCAGNAAAGCACTGGGGNAGGGTCACAGGN
ATGCCACCCGGGATCTGTTCAGGAAACAGCTATGACCGCGGCCGCCCTTTTTTTTTTTTT
TTAATGCCCCAGGATGTACAGATAACCCCCATATTCCACACCTGGAACTTTTTTTTTGTC
AGGTTTTCAAATAAAACCAAACTACAGTGACAAGATAATGTTTTACATGTAATTCCATAG
ACAGGGGTCAATTAATCCATGACACCTCACTTCAATGCTTCTTTTAGGATTTGTGACCCT
CTCCAAAGTCATTTAAAGCCTTGCTTTAAACTCACAGGTGGGCCAAGGCCACACAGCCAA
CGTGCCATGTGCTACAGCCAAAATGGGCCGTGGCCATTGCCTCTCCTCACGTTCCCAGCC
TTCACCATGTCCTTCTGATAGGAAGGGCCCAGGGCCTCTGTTCCTTCCCTCTACAGTGAT
ACATGTCTTAAGAAGGGTCGTGGCTCCCATGCTCCACGTGAAAACGGGCCTACCTGGAGG
GCCCCAGGGTGACAGGCCCAGCCACACCCCTCTACTGCTCTTTCTTGACAGTGGAATTCT
GAGCTCCATCAGCTTCCAGACATTCGGAGACCACACTGCCCTGTTGATCATCCCTGGAGG
AGGCCAGTGAGGGCCCCGGCTCAGTTCCAGGACCAGGCCTCCAAGCTGGGACACAGGCAG
GTTCTGCGGACTTCGGTCTCCTAAAACAGGCACTTGTGGCGGCCTGATGCTCTGGGTAAC
TCTAGCCTTCCTGATGCGGAAGTCACCGAAATGTTCACTTCCTCAAGTTCCAGAGGATTC
TGTTTCTTACTCAGACAGAGCCAGTATTGGGAGTTGGGGGGGGTGCGTATCCAAAATATA
TGAATATACACAATCG

Restriction Sites: Please inquire

ACCN: NM_000633

Insert Size: 3050 bp

OTI Disclaimer:	Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery. 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
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_000633.2, NP_000624.2
RefSeq Size:	6492 bp
RefSeq ORF:	720 bp
Locus ID:	596
UniProt ID:	P10415
Cytogenetics:	18q21.33
Protein Families:	Druggable Genome, ES Cell Differentiation/IPS, Stem cell - Pluripotency, Transmembrane
Protein Pathways:	Amyotrophic lateral sclerosis (ALS), Apoptosis, Colorectal cancer, Focal adhesion, Neurotrophin signaling pathway, Pathways in cancer, Prostate cancer, Small cell lung cancer
Gene Summary:	This gene encodes an integral outer mitochondrial membrane protein that blocks the apoptotic death of some cells such as lymphocytes. Constitutive expression of BCL2, such as in the case of translocation of BCL2 to Ig heavy chain locus, is thought to be the cause of follicular lymphoma. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Feb 2016] Transcript Variant: This variant (alpha) represents the longer transcript and encodes the longer isoform (alpha).