

Product datasheet for **SC337886**

PLCH2 (NM_001303012) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PLCH2 (NM_001303012) Human Untagged Clone
Tag:	Tag Free
Symbol:	PLCH2
Synonyms:	PLC-eta2; PLC-L4; PLCeta2; PLCL4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_001303012, the custom clone sequence may differ by one or more nucleotides

ATGGAAGAGCCTGGGCCCCAGGTGGGCTCAGCCAAGACCAAGTGGAGCGGTGCATGGGTGCCATGCAAG
AGGGGATGCAGATGGTGAAGCTGCGTGGCGGCTCCAAGGGCTGGTCCGCTTCTACTACCTGGACGAGCA
CCGCTCCTGCATCCGCTGGAGGCCCTCACGCAAGAACGAGAAGGCCAAGATCTCCATCGACTCCATCCAG
GAGGTGAGTGAGGGGCGGCAGTCGGAGGTCTTCCAGCGCTACCCTGACGGCAGCTTCGACCCCAACTGCT
GCTTCAGCATCTACCACGGCAGCCACCGGAGTCGCTGGACCTGGTCTCCACCAGCAGCGAGGTGGCGCG
CACCTGGGTCACTGGCCTGCGCTACCTCATGGCCGGCATCAGCGACGAGGACAGCCTGGCTCGCCGCCAG
CGCACCAGGGACCAAGTGGCTGAAGCAGACGTTTGACGAGGCCGACAAGAACGGGGATGGCAGCCTGAGCA
TTGGCGAGGTCTGCAGCTGCTGCACAAGCTCAACGTGAACCTGCCCCGGCAGAGGTGAAGCAGATGTT
CAGGGAAGCGGACACGGATGACCACCAAGGGACGCTGGGTTTTGAAGAGTTCTGTGCCTTCTACAAGATG
ATGTCCACCCGCCGGGACCTCTACCTGCTCATGCTGACCTACAGCAACCACAAGGACCACCTGGATGCCG
CCAGCCTGCAGCGCTTCTGCAGGTGGAGCAGAAGATGGCGGGTGTGACCCTCGAGAGCTGCCAGGACAT
CATCGAGCAGTTTGAGCCATGCCAGAAAAACAAGATAAGGGGCTGCTGGGCATTGATGGCTTACCAAC
TACACCAGGAGCCCTGCTGGTGACATCTTCAACCCTGAGCACCACCATGTGCACCAGGACATGACGCAGC
CGCTGAGCCACTACTTCATCACCTCGTCCCAACAACCTACCTCGTGGGTGACCAGCTCATGTCCAGTC
ACGGGTGGACATGTATGCTTGGGTCTGCAGGCTGGCTGCCGCTGCGTGGAGGTGACTGCTGGGATGGG
CCCGACGGGGAGCCCATTTGTGCACCATGGCTACACTCTGACTTCCAAGATCCTCTTCAAAGACGTCAATTG
AAACCATCAACAAATATGCCTTCATCAAGAATGAGTACCCAGTGATCCTGTCCATCGAAAACCACTGCAG
TGTTCATCCAGCAGAAGAAATGGCCAGTATCTGACTGACATCCTTGGGGACAAGCTGGACCTGTATCA
GTGAGCAGTGAAGATGCCACCACACTCCCTCTCCACAGATGCTCAAGGGCAAGATCCTCGTGAAGGGGA
AGAAGCTCCAGCCAACATCAGCGAGGATGCGGAGGAAGGCGAGGTGTCTGATGAGGACAGTGTGATGA
GATTGACGATGACTGCAAGCTCCTCAATGGGGATGCATCCACCAATCGAAAGCGTGTAGAAAACACTGCT
AAGAGGAACTGGATTCCCTCATCAAAGAGTCGAAGATTCGGGACTGTGAGGACCCCAACAACCTTCTCCG
TCTCCACACTGTCCCATCTGGAAGCTCGGACGCAAGAGCAAGGCTGAAGAGGACGTGGAGTCTGGGGA



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GGATGCCGGGGCCAGCAGACGCAATGGCCGCTCGTCTGGGAAGCTTCTCCAGGCGCAAGAAGAAGGGC
 AGCAAGCTGAAGAAGGCGGCCAGCGTGGAGGAGGAGATGAGGGTCAGGACTCCCCGGGAGGCCAGAGCC
 GAGGGGCGACCCGGCAGAAGAAGACCATGAAGCTGTCCCGGGCCCTCTCTGACCTGGTGAAGTACACCAA
 GTCCGTGGCCACCCACGACATAGAGATGGAGGCGGCGTCCAGCTGGCAGGTGTCTCTTCAGCGAGACC
 AAGGCCACCAGATTCTGCAGCAGAAGCCGGCGCAGTACCTACGTTCAACCAGCAGCAGCTCTCCCGCA
 TCTACCCCTCCTCTACCGTGTGACTCCAGCAACTACAACCCGAGCCCTTCTGGAACGCCGGCTGCCA
 AATGGTTGCCCTGAAGTACCAGTCAGAGGGCGGATGCTGCAGCTGAACCGAGCCAAGTTCAGCGCCAAC
 GGTGGCTGCGGCTACGTACTCAAGCCTGGGTGCATGTGCCAGGGCGTGTCAACCCCAACTCGGAGGACC
 CCCTGCCCGGGCAGCTCAAGAAGCAGCTGGTGCTCCGGATCATCAGTGGCCAGCAGCTTCCCAAGCCGCG
 CGACTCCATGCTGGGGGACCGTGGGGAGATCATCGACCCCTTTGTGGAGGTGGAGATCATTGGGCTCCCT
 GTGGACTGCAGCAGGGAGCAGACCCGCGTGGTGGACGACAACGGGTTCAACCCACCTGGGAGGAGACCC
 TGGTTTTCATGGTGCACATGCCGAGATCGCGCTGGTCCGCTTCTCTGCTGGGACCACGATCCCATCGG
 GCGTGACTTCATTGGCCAGAGGACGCTGGCCTTCAGCAGCATGATGCCAGGCTACAGACAGTGTACCTA
 GAAGGGATGGAAGAGGCCTCCATCTTCGTGCATGTGGCTGTCAAGTGTGAGTGTGAGTGTGAGTGTGAG
 CTCTGGGCTAAAAGGCCTCTTCTCCGAGGCCAAAGCCGGCTCGCTGGACAGTCATGCTGCTGGGCG
 GCCCCCGGCCCGGCCCTCCGTTAGCCAGCGGATCCTGCGGCGCACGGCCAGCGCCCCGACCAAGAGCCAG
 AAGCCGGGCCGAGGGGCTTCCCGAGCTGGTCTGGGTACACGGGACACAGGCTCCAAGGGGTGGCAG
 ACGATGTGGTGGCCCCCGGGCCCGGACCTGCTCCGGAAGCCCCAGCCAGGAGGGGCCCGGACGGCAG
 CCCCCGAGGTAAAGCGCCAGCTGCGGTGGCAGAGAAGAGCCCTGTGCGAGTGGCGCCCCCGCGTGTCTG
 GACGGCCCCGGGCTGCTGGGATGGCCGCCACATGCATGAAGTGTGTGGTGGGATCCTGCGCCGGCGTGA
 ACACCGGGGGCTGCAGAGGGAGCGGCCACCCAGCCGGGGCTGCAAGCAGGACAGGACGCCATTCGCCA
 GCAGCCCCGGGGCCGGGCTGACTCACTGGGGGCCCCCTGCTGTGGCCTGGACCCTACGCTATCCCGGGG
 AGAAGCAGAGAGGCCCAAGGTCCTGGGGCTGGAGGCAGGTCAGGCGGTAGCGGCTCCATGTCCT
 CGGACTCCAGCAGCCAGACAGCCCGGCATCCCCGAAAGGTCCCCCGCTGGCCTGAGGGTGCCTGCAG
 GCAACCGGGGCCCTGCAGGGAGAGATGAGTGCCTGTTTGTCTAAAAGCTGGAGGAGATCAGGAGTAA
 TCCCCATGTTCTCCGCCGTAGGAAC

Restriction Sites:	Sgfl-MluI
ACCN:	NM_001303012
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:	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:	<u>NM_001303012.1</u> , <u>NP_001289941.1</u>
RefSeq Size:	5472 bp
RefSeq ORF:	3390 bp

Locus ID:	9651
UniProt ID:	O75038
Cytogenetics:	1p36.32
Protein Families:	Druggable Genome
Gene Summary:	PLCH2 is a member of the PLC-eta family of the phosphoinositide-specific phospholipase C (PLC) superfamily of enzymes that cleave PtdIns(4,5) P2 to generate second messengers inositol 1,4,5-trisphosphate and diacylglycerol (Zhou et al., 2005 [PubMed 16107206]). [supplied by OMIM, Jun 2009] Transcript Variant: This variant (2) contains an alternate 5'-terminal exon, uses an alternate start codon, and uses an alternate splice site in the 3' coding region, which results in a frameshift compared to variant 1. The encoded isoform (2) has shorter and distinct N- and C-termini, compared to isoform 1.