

Product datasheet for **SC110417**

PILRA (NM_178272) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PILRA (NM_178272) Human Untagged Clone
Tag:	Tag Free
Symbol:	PILRA
Synonyms:	FDF03
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL6</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_178272, the custom clone sequence may differ by one or more nucleotides

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ATGGGTCGGCCCCTGCTGCTGCCCTACTGCCCTTGCTGCTGCCGCCAGCATTCTGCAGCCTAGTGGCT
CCACAGGATCTGGTCCAAGCTACCTTTATGGGGTCACTCAACAAAAACCTCTCAGCCTCCATGGGTGG
CTCTGTGGAAATCCCCTTCTCCTTCTATTACCCCTGGGAGTTAGCCACAGCTCCCGACGTGAGAATATCC
TGGAGACGGGGCCACTTCCACAGGCAGTCCTTCTACAGCACAAGGCCGCTTCCATTACAAGGATTATG
TGAACCGCTCTTCTGAACTGGACAGAGGGTCAGAAGAGCGGCTTCTCAGGATCTCCAACCTGCAGAA
GCAGGACCACTGTGTATTTCTGCCGAGTTGAGCTGGACACACGGAGCTCAGGGAGGCAGCAGTGGCAG
TCCATCGAGGGGACCAAACTCTCCATCACCCAGGGTCAGCAGCGGACTAAAGCCACAACCCAGCCAGGG
AACCCCTTCAAAAACAGAGGAGCCATATGAGAATATCAGGAATGAAGGACAAAATACAGATCCCAAGCT
AAATCCCAAGGATGACGGCATCGTCTATGCTTCCCTTGCCCTCTCCAGCTCCACCTCACCCAGAGCACCT
CCCAGCCACCGTCCCCTCAAGAGCCCCAGAACGAGACCTGTACTCTGTCTTAAAGGCCTAA
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5' Read Nucleotide Sequence:	>OriGene 5' read for NM_178272 unedited GCACGAGGGCTGGGTCCCTGAATCACCGACTGGAGGAGAGTTACCTACAAGAGCCTTCAT CCAGGAGCATCCACACTGCAATGATATAGGAATGAGGCGGCCCTCCACAGGGCCCTCT CCTGCCTGGACGGCTCTGCTGGTCTCCCCGTCCCCTGGAGAAGAACAAGGCCATGGGTG GCCCTGCTGCTGCCCTACTGCCCTGCTGCTGCCGCCAGCATTCTGCAGCCTAGTGG CTCCACAGGATCTGGTCCAAGTACCTTTATGGGGTCACTCAACCAAAACACCTCTCAGC CTCCATGGGTGGCTCTGTGGAAATCCCCCTTCTCCTTCTATTACCCCTGGGAGTTAGCCAC AGCTCCCGACGTGAGAATATCCTGGAGACGGGGCCACTTCCACGGGCAGTCTTCTACAG CACAAGGCCGCCTTCCATTACACAAGGATTATGTGAACCGCTCTTTCTGAACTGGACAGA GGGTGAGAAGAGCGGTTTCTCAGGATCTCCAACCTGCAGAAGCAGGACCAGTCTGTGTA TTTCTGCCGAGTTGAGCTGGACACACGGAGCTCAGGGAGGCAGCAGTGGCAGTCCATCGA GGGGACCAAACTCTCCATCACCCAGGGTCAGCAGCGGACTAAAGCCACAACCCAGCCAG GGAACCTTCCA
Restriction Sites:	NotI-NotI
ACCN:	NM_178272
Insert Size:	1600 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:	<u>NM_178272.1</u> , <u>NP_840056.1</u>
RefSeq Size:	1104 bp
RefSeq ORF:	693 bp
Locus ID:	29992
UniProt ID:	<u>Q9UKJ1</u>
Cytogenetics:	7q22.1
Protein Families:	Druggable Genome, Transmembrane

Gene Summary:

Cell signaling pathways rely on a dynamic interaction between activating and inhibiting processes. SHP-1-mediated dephosphorylation of protein tyrosine residues is central to the regulation of several cell signaling pathways. Two types of inhibitory receptor superfamily members are immunoreceptor tyrosine-based inhibitory motif (ITIM)-bearing receptors and their non-ITIM-bearing, activating counterparts. Control of cell signaling via SHP-1 is thought to occur through a balance between PILRalpha-mediated inhibition and PILRbeta-mediated activation. These paired immunoglobulin-like receptor genes are located in a tandem head-to-tail orientation on chromosome 7. This particular gene encodes the ITIM-bearing member of the receptor pair, which functions in the inhibitory role. Alternative splicing has been observed at this locus and three variants, each encoding a distinct isoform, are described. [provided by RefSeq, Jul 2008]

Transcript Variant: This variant (2) lacks a coding exon, compared to variant 1, resulting in a protein (isoform 2) with a missing internal segment, compared to isoform 1. Isoform 2 is thought to be a soluble protein, since it lacks the transmembrane domain found in isoform 1.