

Product datasheet for **SC108389**

PILRA (NM_013439) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PILRA (NM_013439) Human Untagged Clone
Tag:	Tag Free
Symbol:	PILRA
Synonyms:	FDF03
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_013439, the custom clone sequence may differ by one or more nucleotides

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ATGGGTCGGCCCTGCTGCTGCCCTACTGCCCTTGCTGCTGCCGCCAGCATTTCTGCAGCCTAGTGGCT
CCACAGGATCTGGTCCAAGCTACCTTTATGGGGTCACTCAACAAAAACCTCTCAGCCTCCATGGGTGG
CTCTGTGGAAATCCCCTTCTCCTTCTATTACCCCTGGGAGTTAGCCACAGCTCCCGACGTGAGAATATCC
TGGAGACGGGGCCACTTCCACAGGCAGTCTTCTACAGCACAAGGCCGCTTCCATTACAAGGATTATG
TGAACCGCTCTTCTGAACTGGACAGAGGGTCAGAAGAGCGGCTTCTCAGGATCTCCAACCTGCAGAA
GCAGGACCACTGTGTATTTCTGCCGAGTTGAGCTGGACACACGGAGCTCAGGGAGGCAGCAGTGGCAG
TCCATCGAGGGGACCAAACCTCTCCATCACCCAGGCTGTACGACCACCACCCAGAGGCCAGCAGCATGA
CTACCACCTGGAGGCTCAGTAGCACAACCACACAACCGGCTCAGGGTACACAGGGCAAACGACGCTC
AGACTCTTGCCACATAAGTCTGGAGACTGCTGTGGGGTGGCAGTGGCTGTCACTGTGCTCGGAATCATG
ATTTTGGGACTGATCTGCCTCCTCAGGTGGAGGAGAAGGAAAGGTGAGCAGCGGACTAAAGCCACAACCC
CAGCCAGGGAACCTTCCAAAACACAGAGGAGCCATATGAGAATATCAGGAATGAAGGACAAAATACAGA
TCCAAGCTAAATCCAAGGATGACGGCATCGTCTATGCTTCCCTTGCCCTCTCCAGCTCCACCTCACCC
AGAGCACCTCCCAGCCACCGTCCCCTCAAGAGCCCCAGAACGAGACCCTGTACTCTGTCTTAAAGGCT
AA
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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_013439 unedited
 TCGGCTTTTGTATACGACTCACTATAGGCGGCCGCAATTTCGCACGAGGCTCCACCCCTG
 GGAGGCAGAAGCCAGGCATAGCGCGCTGGCTAGGACTCCAGTACCGTGAAGGGAGGCAGT
 GAGAGCAGACATCTGTGCCTCATTCTGATCTCAAGGGAAAGCAAGAACAAGGGAGGCT
 TCCTCAGGATCTCGAACCTGCGGAAGGAGGACCAGTCTGTGTACTTCTGCCAAGTCCAGC
 TGGACATACAGATCAGGGAGGCTGTCTGTGGCAGTCCATCAAGGGGACCCACCTCACCATC
 ACCAGGCCCTCAGGCAGCCCTCCACAGGGCCCTCTCCTGCCTGGACAGCTCTGCTGG
 TCTCCCCGTCCCCTGGAGAAGAACAAGGCCATGGGTTCGGCCCTGCTGCTGCCCTGCTG
 CTCTGCTGCAGCCGCCAGCATTCTGCAGCCTGGTGGCTCCACAGGATCTGGTCCAAGC
 TACCTTTATGGGGTCACTCAACCAAAACACCTCTCAGCCTCCATGGGTGGCTCTGTGGAA
 ATCCCCTTCTCCTTCTATTACCCTGGGAGTTAGCCATAGTTCCCAACGTGAGAAATATCC
 TGGAGACGGGGCCACTTCCACGGGCAGTCTTCTACAGCACAAGGCCGCTTCCATTAC
 AAGGATTATGTGAACCGGCTCTTCTGAACTGGACAGAGGGTCAAGAGAGCGGCTTCTC
 AGGATCTCAAACCTGCGGAAGGAGGACCAGTCTGTGATTTCTGCCGAGTCGAGCTGGAC
 ACCCGNAGATCAGGGAGGAGCAGTTGCAGTCCATCAAGGGGACCAAACTCACCATCACC
 CCAGCTGTCAACACCACCACCTGGNAGGCCAGCAGCACAACCACCATAGNCGGCT
 CAGGNTCACAGAAAGCAAGGGCACTCANAATCATGGCACCTAAGTCTGGCACTGCCATC
 AGGNTGCATTGGCTGNCGCTGN

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_013439 unedited
 NNTTTTTAGCTATGGACCGCGCCGCAATCTAGGATCGAGTTTTTTTTTTTTTTTTTTTT
 AAATTTGTTACTTTATTGTTAATATATATTTTTAACTAGAGATGGCATCTCGCTCCATTA
 TCAAAGCTGGCCCTGAACTCCTGGGCTCACTTGATTCTGCCTCAGGCTTCAGAGTAGCTG
 GGATTACAGGTGTGCGCCACTGTACCTGGCCTCACCATTCAAGTCTGAGAGGGCTGTCCA
 TTGGTTAGGCCTTAAGACAGAGTACAGGGTCTCGTTCTGGGGGCTCTTGAAGGGACGGT
 GGCTGGGAGGTGCTCTGGGTGAGGTGGAGCTGGAGAGGGCAAGGGAAGCATAGACGATGC
 CGTCATCCTTGGGATTTAGCTTGGGATCTGTATTTTGCCTTCATTCTGATATTCTCAT
 ATGGCTCCTCTGTGTTTTGGAAGGGTCCCTGGCTGGGGTTGTGGCTTTAGTCCGCTGCT
 GACCTTTCCTTCTCCTCCACCTGAGGAGGAGATCAGTCCAAAATCATGATTCCGAGCA
 CAGTGACAGCCACTGCCACCCACAGCAGTCTCCAGACTTATGTGCAAGAGTCTGAGC
 GTCGTTTTGCCCTGTGTGACCCTGAGGCCGTTGTGGTGGTGTGCTACTGAGCCTCCAGG
 TGGTAGTCATGCTGCTGGCCCTCTGGGTGGTGGTGTGACAGCCTGNGTGATGGAGAGNT
 TGGGTCCCTCGATGGACTGCCACTGCTGCCTCCCTGAGCTNNGTGTGTCCAGCTAAAC
 TCGGCAGAAAACAGACTGGTCTGCTTTGCAGTTTGGGAGATCTGGAGAAGCCGCTCT
 CTGACCTCTGTCCAGTCAGAAGAAGACGGTCACATATCTGTGAAAGGAAAGCNCCTGGC
 TTTNAAAGGCTCGGTCGTGAATGGGCC

Restriction Sites:

NotI-NotI

ACCN:

NM_013439

Insert Size:

2190 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_013439.2](#), [NP_038467.2](#)

RefSeq Size: 1323 bp

RefSeq ORF: 912 bp

Locus ID: 29992

UniProt ID: [Q9UKJ1](#)

Cytogenetics: 7q22.1

Domains: IG

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 (1) represents the longest transcript and encodes the longest isoform (1).