

## Product datasheet for **RG222662**

### **PILRA (NM\_013439) Human Tagged ORF Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** PILRA (NM\_013439) Human Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** PILRA  
**Synonyms:** FDF03  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >RG222662 representing NM\_013439  
**Red=Cloning site Blue=ORF Green=Tags(s)**

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGGTCGGCCCCTGCTGCTGCCCTACTGCCCTTGCTGCTGCCGCCAGCATTCTGCAGCCTAGTGGCT  
CCACAGGATCTGGTCCAAGCTACCTTTATGGGGTCACTCAACCAAAACACCTCTCAGCCTCCATGGGTGG  
CTCTGTGGAAATCCCCTTCTCCTTCTATTACCCCTGGGAGTTAGCCACAGCTCCCAGCTGAGAATATCC  
TGGAGACGGGGCCACTTCCACAGGCAGTCCTTCTACAGCACAAGGCCGCTTCCATTACAAGGATTATG  
TGAACCGCTCTTCTGAACTGGACAGAGGGTCAAGAGCGGCTTCTCAGGATCTCCAACCTGCAGAA  
GCAGGACCACTGTGTATTTCTGCCGAGTTGAGCTGGACACACGAGCTCAGGGAGGCAGCAGTGGCAG  
TCCATCGAGGGGACCAAACTCTCCATCACCCAGGCTGTCACGACCACCCAGAGGCCAGCAGCATGA  
CTACCACCTGGAGGCTCAGTAGCACAACCACCAACCGGCTCAGGGTACACAGGGCAACGACGCTC  
AGACTCTTGGCACATAAGTCTGGAGACTGCTGTGGGGTGGCAGTGGCTGTCACTGTGCTCGAATCATG  
ATTTTGGGACTGATCTGCCTCCTCAGGTGGAGGAGAAGGAAAGGTGAGCAGCGGACTAAAGCCACAACCC  
CAGCCAGGGAACCTTCCAAAACACAGAGGAGCCATATGAGAATATCAGGAATGAAGGACAAAATACAGA  
TCCCAAGCTAAATCCCAAGGATGACGGCATCGTCTATGCTTCCCTTGGCCCTCTCCAGCTCCACCTCACCC  
AGAGCACCTCCAGCCACCGTCCCCTCAAGAGCCCCAGAACGAGACCCTGTACTGTCTTAAAGGCC

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA



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**Protein Sequence:** >RG222662 representing NM\_013439  
Red=Cloning site Green=Tags(s)

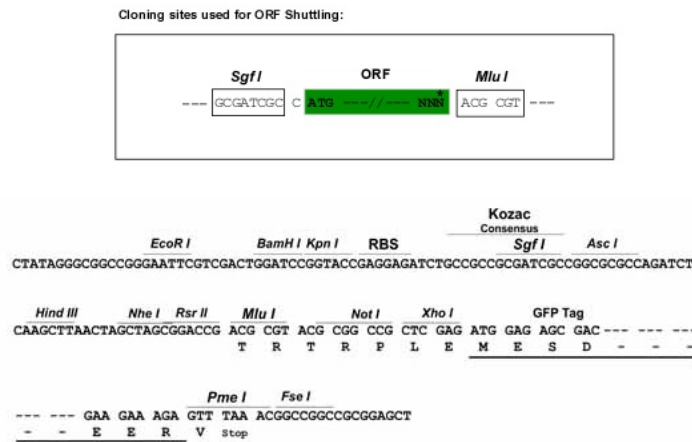
MGRPLLLPLLPLLLPPAFLQPSGSTGSGPSYLYGVTQPKHLSASMGGSV EIPFSFYYPWELATAPDVRIS  
 WRRGHFHRQSFYSTRPPSIHKDYVNRLFNLNWTGEGQKSGFLRISNLQKQDQSVYFCRVELDTRSSGRQQWQ  
 SIEGTKLSITQAVTTTTQRPSMTTTTWRLSSTTTTTGLRVTQGGKRRSDSWHISLETAVGVAVAVTVLGIM  
 ILGLICLLRWRRRKGGQRTKATTPAREPFQNT EEPYENIRNEGQNTDPKLNPKDDGIVYASLALSSSTSP  
 RAPPSHRPLKSPQNETLYSVLKA

TRTRPLE - GFP Tag - V

**Chromatograms:** [https://cdn.origene.com/chromatograms/ja3296\\_d04.zip](https://cdn.origene.com/chromatograms/ja3296_d04.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_013439

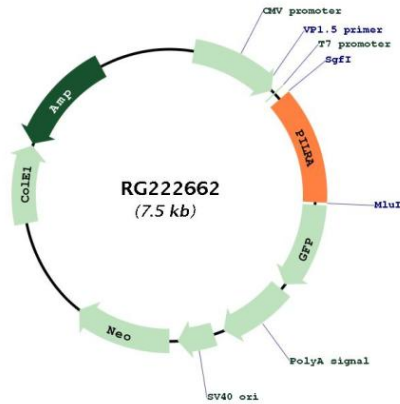
**ORF Size:** 909 bp

**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](mailto: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](#)

<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_013439.3</a>
<b>RefSeq Size:</b>	1323 bp
<b>RefSeq ORF:</b>	912 bp
<b>Locus ID:</b>	29992
<b>UniProt ID:</b>	<a href="#">Q9UKJ1</a>
<b>Cytogenetics:</b>	7q22.1
<b>Domains:</b>	IG
<b>Protein Families:</b>	Druggable Genome, Transmembrane
<b>Gene Summary:</b>	<p>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]</p>

Product images:



Circular map for RG222662