

## Product datasheet for **RC224978**

### **PILRB (NM\_175047) Human Tagged ORF Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** PILRB (NM\_175047) Human Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** PILRB  
**Synonyms:** FDFACT1; FDFACT2  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**ORF Nucleotide Sequence:** >RC224978 representing NM\_175047  
**Red=Cloning site Blue=ORF Green=Tags(s)**

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGGTCGGCCCCTGCTGCTGCCCTGCTGCTCCTGCTGCAGCCGCCAGCATTCTGCAGCCTGGATTAT  
GTGAACCGGCTCTTTCTGAAGTGGACAGAGGGTCAGGAGAGCGGTTCTCAGGATCTCAAACCTGCGGA  
AGGAGGACCAGTCTGTGATTTCTGCCGAGTCGAGCTGGACCCGGAGATCAGGGAGGCAGCAGTTGCA  
GTCCATCAAGGGACAAACTACCATCACCCAGGCTGTACAACCACCACCCTGGAGGCCAGCAGC  
ACAACCACCATAGCCGGCTCAGGGTCACAGAAAGCAAAGGGCACTCAGAATCATGGCACCTAAGTCTGG  
ACACTGCCATCAGGGTTGCATTGGCTGTCGCTGTGCTCAAACTGTCATTTGGGACTGCTGTCCTCCT  
CCTCCTGTGGTGGAGGAGAAGGAAAGG

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC224978 representing NM\_175047  
**Red=Cloning site Green=Tags(s)**

MGRPLLLPLLLLLQPPAFLQPGLCEPALSELDKSGERLPPQDLKPAEGGPVCFVFLPSRAGHPEIREAAVA  
VHQGDQTHHHPGCHNHHHLEAQQHNSRPPQHRKQRLRIMAPKSGHCHQGCIGCRCAQNCHFGTAVPP  
PPVVEEKER

**TRTRPLEQKLI**SEEDLAANDILDYKDDDDKV

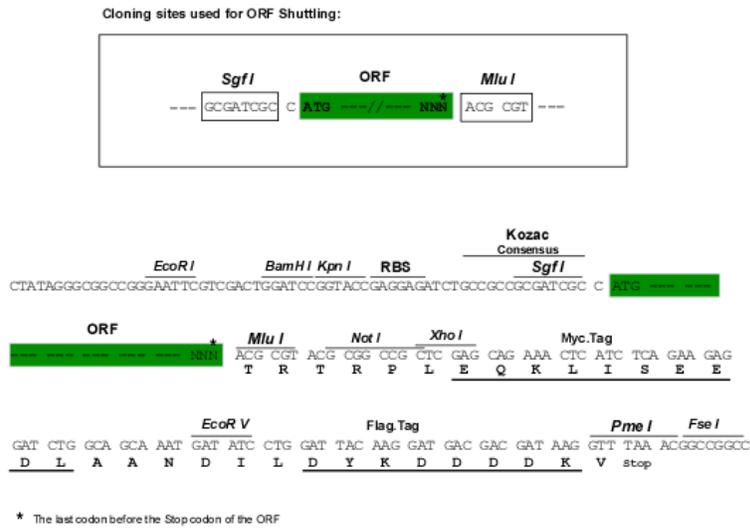
**Chromatograms:** [https://cdn.origene.com/chromatograms/ja1449\\_c05.zip](https://cdn.origene.com/chromatograms/ja1449_c05.zip)



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Restriction Sites: Sgfl-MluI

Cloning Scheme:



ACCN: NM\_175047

ORF Size: 447 bp

OTI Disclaimer: 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](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM\\_175047.2](#), [NP\\_778212.2](#)

RefSeq Size: 2956 bp

RefSeq ORF: 449 bp

Locus ID: 29990

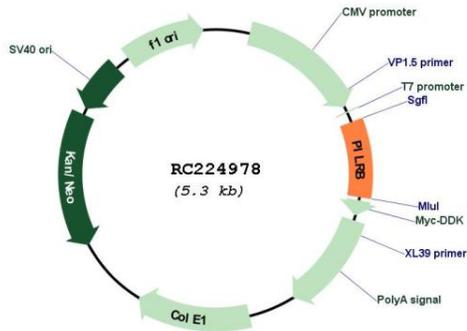
Cytogenetics: 7q22.1

Protein Families: Druggable Genome, Transmembrane

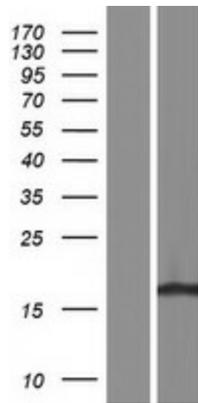
MW: 16.2 kDa

**Gene Summary:** The paired immunoglobulin-like type 2 receptors consist of highly related activating and inhibitory receptors that are involved in the regulation of many aspects of the immune system. The paired immunoglobulin-like receptor genes are located in a tandem head-to-tail orientation on chromosome 7. This gene encodes the activating member of the receptor pair and contains a truncated cytoplasmic tail relative to its inhibitory counterpart (PILRA), that has a long cytoplasmic tail with immunoreceptor tyrosine-based inhibitory (ITIM) motifs. This gene is thought to have arisen from a duplication of the inhibitory PILRA gene and evolved to acquire its activating function. [provided by RefSeq, Jun 2013]

**Product images:**



Circular map for RC224978



Western blot validation of overexpression lysate (Cat# [LY406375]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC224978 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).