

Product datasheet for RC207868

C12orf53 (PIANP) (NM_153685) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	C12orf53 (PIANP) (NM_153685) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	C12orf53
Synonyms:	C12orf53; leda-1; LEDA1; PANP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC207868 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTAAATACGACTCACTATAGGGCGGCCGGAATTCGTGCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGC**C

ATGGAGTCCAGGATGTGGCCTGCGCTGCTGTGTCCACCTCCTCCCTCTTGCCACTGCTGTTGCTGC
 CCCTCCACCGCCTGCTCAGGGCTCTTCATCCTCCCTCGAACCCACCAGCCCCAGCCCGCCCCCGTG
 TGCCAGGGGAGGCCCTCGGCCACGTCATGTGTGCGTGTGGGAGCGAGCACCTCCACCAAGCCGATCT
 CCTCGGGTCCCAAGATCACGTCGGAAGTCCTGCCTGGCACTGCACCCACGCCACCCATCAGGCTTTG
 AGGAGGGGCCGCCCTCATCCCAATACCCCTGGGCTATCGTGTGGGTCCACCGTGTCTCGAGAGGATGG
 AGGGGACCCCAACTCTGCCAATCCCGGATTTCTGGACTATGGTTTTGCAGCCCTCATGGGCTCGCAACC
 CCACACCCCAACTCAGACTCCATGCGAGGTGATGGAGATGGGCTTATCCTTGGAGAGGCACCTGCCACCC
 TGCGGCCATTCTGTTCGGGGGCCGTGGGAAGGTGTGGACCCCAAGCTCTATGTACAATTACCATCTC
 CATCATATTGTTCTCGTGGCACTGGCATCATCTTCAAGTTCTGCTGGGACCGCAGCCAGAAGCGACGC
 AGACCCTCAGGGCAGCAAGGTGCCCTGAGGCAGGAGGAGCCAGCAGCCACTGACAGACCTGTCCCCGG
 CTGGAGTCACTGTGTGGGGCCTTCGGGACTCACCTACCCCAACCCCTGACCATGAGGAGCCCGAGG
 GGGACCCCGCCTGGGATGCCCAACCCCAAGGGGGCTCCAGCCTCCAGTTGAACCGGATTCCCTGGTG
 AATCTG

ACGCGTACGCGGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA


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Protein Sequence: >RC207868 protein sequence
 Red=Cloning site Green=Tags(s)

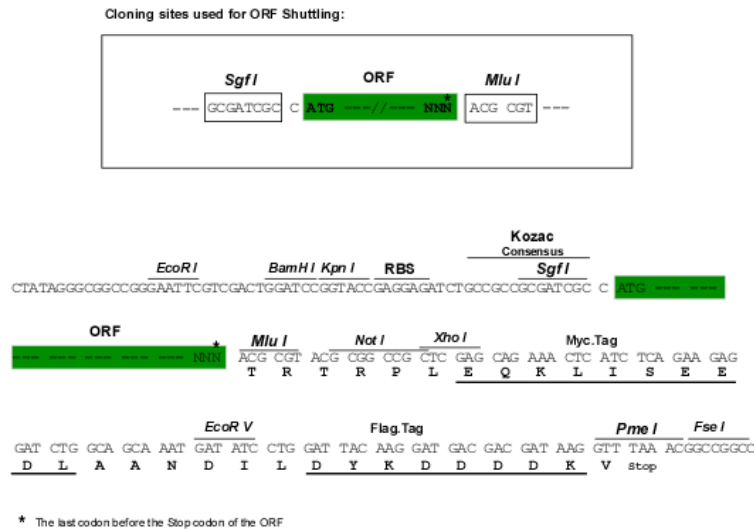
MESRMWPALLLSHLLPLWPLLLLPLPPPAQGSSSSPRTTPAPARPPCARGGPSAPRHVCVWERAPPPSRS
 PRVPRSRQVLPGTAPPATPSGFEEGPPSSQYPWAIWGPVTSREDGGDPNSANPGFLDYGFAAPHGLAT
 PHPNSDSMRGDGDLILGEAPATLRPFLFGGRGEGVDPQLYVTITISIIIVLVATGIIFKFCWDRSQKRR
 RPSGQQGALRQEESSQQPLTDLSPAGVTVLGAFGDSPTPTPDHEEPRGGPRGMPHPKGAPAFQLNRIPLV
 NL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6337_f07.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_153685

ORF Size: 846 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_153685.4](#)

RefSeq Size: 2377 bp

RefSeq ORF: 849 bp

Locus ID: 196500

UniProt ID: [Q8IYJ0](#)

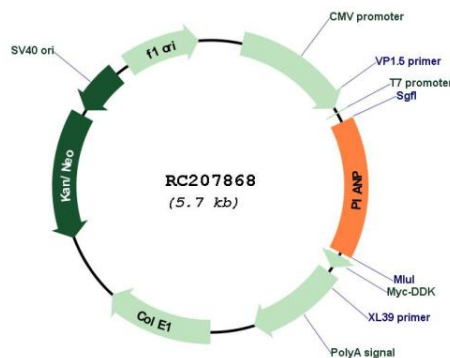
Cytogenetics: 12p13.31

Protein Families: Transmembrane

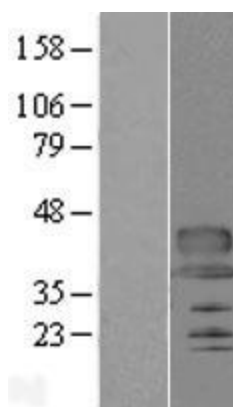
MW: 30.1 kDa

Gene Summary: This gene encodes a ligand for the paired immunoglobulin-like type 2 receptor alpha, and so may be involved in immune regulation. Alternate splicing results in multiple transcript variants encoding different proteins. [provided by RefSeq, Sep 2011]

Product images:



Circular map for RC207868



Western blot validation of overexpression lysate (Cat# [LY407009]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC207868 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).