

Product datasheet for **RC204898**

IL2 Receptor gamma (IL2RG) (NM_000206) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Myc-DDK
Symbol:	IL2 Receptor gamma
Synonyms:	CD132; CIDX; IL-2RG; IMD4; P64; SCIDX; SCIDX1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC204898 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGTTGAAGCCATCATTACCATTCACATCCCTCTTATTCTGCAGCTGCCCTGCTGGGAGTGGGGCTGA
 ACACGACAATTCTGACGCCCAATGGGAATGAAGACACCACAGCTGATTTCTTCTGACCACTATGCCAC
 TGACTCCCTCAGTGTTTCCACTCTGCCCCCTCCAGAGGTTCAAGTGTGTTCAATGTCGAGTACATG
 AATTGCACTTGGAAACAGCAGCTCTGAGCCCCAGCCTACCAACCTCACTCTGCATTATTGGTACAAGAACT
 CGGATAATGATAAAGTCCAGAAGTGCAGCCACTATCTATTCTCTGAAGAAATCACTTCTGGCTGTCAGTT
 GCAAAAAAAGGAGATCCACCTCTACCAAAACATTTGTTGTTCAAGTCCAGGACCCACGGGAACCCAGGAGA
 CAGGCCACACAGATGCTAAACTGCAGAATCTGGTGATCCCTGGGCTCCAGAGAACCTAACACTTCACA
 AACTGAGTGAATCCCAGCTAGAAGTGAAGTGAACAACAGATTCTGAACCACTGTTTGGAGCACTTGGT
 GCAGTACCGGACTGACTGGGACCACAGCTGGACTGAACAATCAGTGGATTATAGACATAAGTTCTCCTTG
 CCTAGTGTGGATGGGCAGAAACGCTACACGTTTCGTGTTGCGAGCCGCTTAAACCACTCTGTGGAAGTG
 CTCAGCATTGGAGTGAATGGAGCCACCAATCCACTGGGGGAGCAATACTTCAAAGAGAATCCTTTCT
 GTTTGCATTGGAAGCCGTGTTATCTCTGTTGGCTCCATGGGATTGATTATCAGCCTTCTCTGTGTGAT
 TTCTGGCTGGAACGACGATGCCCGAATTCACACCTGAAGAACCTAGAGGATCTTGTACTGAATACC
 ACGGGAACTTTTCGGCCTGGAGTGGTGTCTAAGGGACTGGCTGAGAGTCTGCAGCCAGACTACAGTGA
 ACGACTCTGCCTCGTCAGTGAGATTCCTCCAAAAGGAGGGGCCCTTGGGAGGGGCTGGGGCCTCCCCA
 TGCAACCAGCATAGCCCCACTGGGCCCCCCCATGTTACACCCTAAAGCCTGAAACC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA


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Protein Sequence: >RC204898 protein sequence
 Red=Cloning site Green=Tags(s)

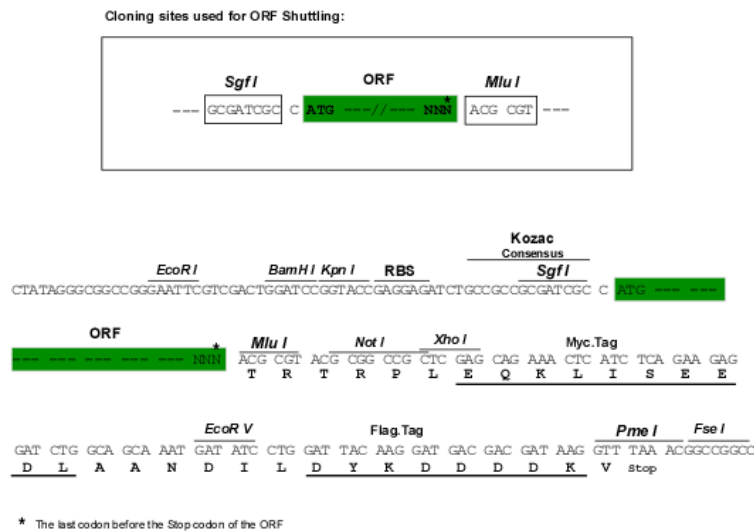
MLKPSLPFTSLLFLQLPLLGVGLNTTILTPNGNEDTTADFFLTMTPTDSLVSSTLPLPEVQCFVFNVEYM
 NCTWNSSEPQPTNLTLHYWYKNSDNDKVQKCSHYLFSEEITSGCQLQKKEIHL YQTFVVQLQDPREPRR
 QATQMLKLQNLVIPWAPENLTLHKLSESQLELNWNNRFLNHCLEHLVQYRTDWDHSWTEQSVDRHKFSL
 PSVDGQKRYTFRVRSFNPLCGSAQHWSEWSHPHWSNNTSKENPFLFALEAVVISVGSMLIIISLLCVY
 FWLERTMPRIPTLKNLEDLVTEYHGNSAWSGVSKGLAESLQPDYSERLCLVSEIPPKGGALGEGPGASP
 CNQHSPYWAPPCYTLKPET

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6062_g04.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_000206

ORF Size: 1107 bp

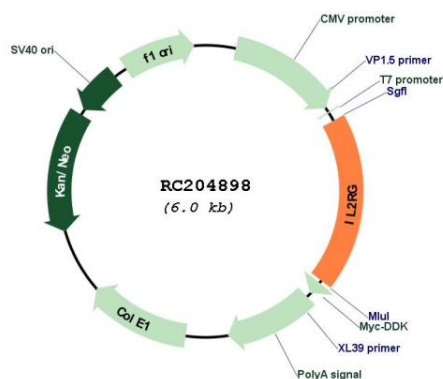
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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.

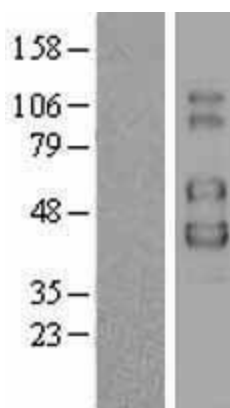
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

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:	<u>NM_000206.3</u>
RefSeq Size:	1560 bp
RefSeq ORF:	1110 bp
Locus ID:	3561
UniProt ID:	<u>P31785</u>
Cytogenetics:	Xq13.1
Protein Families:	Druggable Genome, Transmembrane
Protein Pathways:	Cytokine-cytokine receptor interaction, Endocytosis, Jak-STAT signaling pathway, Primary immunodeficiency
MW:	42.3 kDa
Gene Summary:	The protein encoded by this gene is an important signaling component of many interleukin receptors, including those of interleukin -2, -4, -7 and -21, and is thus referred to as the common gamma chain. Mutations in this gene cause X-linked severe combined immunodeficiency (XSCID), as well as X-linked combined immunodeficiency (XCID), a less severe immunodeficiency disorder. [provided by RefSeq, Mar 2010]

Product images:



Circular map for RC204898



Western blot validation of overexpression lysate (Cat# [LY400077]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC204898 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).