

## Product datasheet for **SC127538**

### IL2 Receptor gamma (IL2RG) (NM\_000206) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	IL2 Receptor gamma (IL2RG) (NM_000206) Human Untagged Clone
Tag:	Tag Free
Symbol:	IL2 Receptor gamma
Synonyms:	CD132; CIDX; IL-2RG; IMD4; P64; SCIDX; SCIDX1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC127538 sequence for NM_000206 edited (data generated by NextGen Sequencing)

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ATGTTGAAGCCATCATTACCATTACATCCCTCTATTCTGCAGCTGCCCTGCTGGGA
GTGGGGCTGAACACGACAATTCTGACGCCAATGGGAATGAAGACACCACAGCTGATTC
TTCCTGACCACTATGCCCACTGACTCCCTCAGTGTTCCTACTCTGCCCTCCCAGAGTT
CAGTGTTCCTGTTCAATGTCGAGTACATGAATTGCACTTGAACAGCAGCTCTGAGCCC
CAGCCTACCAACCTCACTCTGCATTATTGGTACAAGAAGCTCGGATAATGATAAAGTCCAG
AAGTGCAGCCACTATCTATTCTGAAGAAATCACTTCTGGCTGTCAGTTGCAAAAAAAG
GAGATCCACCTTACCAAACATTTGTTGTTTCAGCTCCAGGACCCACGGGAACCCAGGAGA
CAGGCCACACAGATGCTAAAAGTGCAGAATCTGGTGATCCCTGGGCTCCAGAGAACCTA
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CACTGTTTGGAGCACTTGGTGCAGTACCGGACTGACTGGGACCACAGCTGGACTGAACAA
TCAGTGGATTATAGACATAAGTTCTCCTTGCCTAGTGTGGATGGGAGAAACGCTACACG
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GAAGCCGTGGTTATCTCTGTTGGCTCCATGGGATTGATTATCAGCCTTCTCTGTGTGTAT
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ACTGAATACCACGGAACTTTTCGGCCTGGAGTGGTGTCTAAGGGACTGGCTGAGAGT
CTGCAGCCAGACTACAGTGAACGACTCTGCCTCGTCAGTGAGATTCCCCAAAAGGAGGG
GCCCTTGGGGAGGGCCCTGGGGCTCCCATGCAACCAGCATAGCCCCTACTGGGCCCC
CCATGTTACACCCTAAAGCCTGAAACCTGA

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Clone variation with respect to NM\_000206.2



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<b>5' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 5' read for NM_000206 unedited  GTCATAATTGTATACGACNACTATAGGCGGCCGCGAAATTCGCACGAGGCGCCATGTTGA  AGCCATCATTACCATTACATCCCCTTTATTCTCGCAGCTGCCCTGCTGGGAGTGGGGC  TGAACACGACAATTCTGACGCCAATGGGAATGAAGACACCACAGCTGATTTCTTCTGA  CCACTATGCCACTGACTCCCTCAGTGTTCCTCTGCCCTCCCAGAGTTTCCAGAGTT  TTGTGTTCAATGTCGAGTACATGAATTGCACTTGAACAGCAGCTCTGAGCCCCATCCTA  CCAACCTCACTCTGCATTATTGGTACAAGAAGTCCGATAATGATAAAGTCCAGAAGTGCA  GCCACTATCTATTCTCTGAAGAAATCACTTCTGGCTGTCAGTTGCAAAAAAAGGAGATCC  ACCTCTACCAAACATTTGTTGTTGCTCAGCTCCAGGACCCACGGGAACCCATGATACAGGCCA  CACAGATGCTAAAAGTGCAGAATCTGGTATCCCCTGGGCTCCAGATAACCTAACACTTC  ACAAAAGTGAATCCCAGCTAGAAGTGAAGTGAACAAACAGATTCTTGAACCACTGTT  TGGAGCACTTGGTGCAGTACCGGACTGACTGGGACCACAGCTGGACTGAACAATCAGTGG  ATTATAGACATAAGTTCTCCTTGCCTAGTGTGGATGGGCAGAAACGCTACACGTTTCGTG  TTCGGAGCCGCTCTATCCACTCTGTGGAAGTGTACATTGGAGTGAATGGAGCCACCCA  ATCCACTGGGGGAGCAATACTTTCAAAGAGATNCTTTCTGTNTGCATTGGAAGCCGAAG  TTATCTCTAGTGGCTCCATGAGATAGATATCANNCTCTCTGAGTGTATTCTGGCTGGA  ACGGACGATGCCCNATTNCCACCCTGAGATCTANAGGATCTTTACTGATACANCGGA  ACTTTCGCA</p>
<b>3' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 3' read for NM_000206 unedited  NNNNGGTTTCTGTGNACCGCGCCCGCTTTCTANGATCGAGTTTTTTCTTTTTTTTTTTTT  TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTGGTGATTATCAACAGAAACTTTTTTTT  TCATCGGTTCCAGGAACAATCGGAGGTAATGGAAAAAGGAAGGGAGGGAAAAAGGGAGG  GAGGAAAAATCCGCCAAAAGGAAGGGCCCACTGTGTTTTTAAAAAACTGTTCCGGGGC  AAAAGGGTAATTTTCAAGTGGGGAAATGCCCAATGAAGGGGTGCTTACCTGGGGGCCAAA  ATTCCAATCAACCCAGTGGGGTGAAGTGAAGTTTAAACCCAGTGGGTTGAATGAAGG  AAAGTTAGTTCCCTTAGGGTACCGGACCCTGGGGTTCTTCTGTCAAAGGATTGGGGTT  CAGGTTTCAGGCTTTAGGGTGAACATGGGGGGGCCCAATAGGGGCTATTCTGGTTGCAT  GGGGAGGCCCCAGGCCCTCCCCAAGGGCCCTCCTTTGGGGGAATCTCACTGACCAGG  CAAAGTCTTCACTGTAGTCTGGCTGCAGACTCTCAACCAGTCCCTTAAACCACCACTCC  AGGCCGAAAAGTTCCCGTGGTATTCAAGTAAACAGATCCTTAGGTTCTTCAGGGTGGGAA  TTCGGGGCATCGTCCGTTCCAGCCAGAAAACACCCGAGAAGGCTGGTAATTCATCCCCT  GGAGCCAACAGAGATAACCACGGCTTTCAATGCAAAACAGGAAAGGATTCTCTTTTGAGA  TTTTGCTCCCCATGGGATTGGGTGGCTCCATTCACTCCAATGCTGGACCCCTTCCAG  AATGGGGTAAAAGCCGCTCTCCAACACCAACGTTTTATCGTT</p>
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_000206
<b>Insert Size:</b>	1500 bp
<b>OTI Disclaimer:</b>	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
<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_000206.1</a> , <a href="#">NP_000197.1</a>
<b>RefSeq Size:</b>	1451 bp
<b>RefSeq ORF:</b>	1110 bp
<b>Locus ID:</b>	3561
<b>UniProt ID:</b>	<a href="#">P31785</a>
<b>Cytogenetics:</b>	Xq13.1
<b>Protein Families:</b>	Druggable Genome, Transmembrane
<b>Protein Pathways:</b>	Cytokine-cytokine receptor interaction, Endocytosis, Jak-STAT signaling pathway, Primary immunodeficiency
<b>Gene Summary:</b>	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]