

Product datasheet for **RG209687**

IL7R alpha (IL7R) (NM_002185) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	IL7R alpha (IL7R) (NM_002185) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	IL7R alpha
Synonyms:	CD127; CDW127; IL-7R-alpha; IL7RA; ILRA
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RG209687 representing NM_002185
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGACAATTCTAGGTACAACCTTTTGGCATGGTTTTTTCTTACTTCAAGTCGTTTCTGGAGAAAGTGGCT
 ATGCTCAAAATGGAGACTTGAAGATGCAGAACTGGATGACTACTCATTCTCATGCTATAGCCAGTTGGA
 AGTGAATGGATCGCAGCACTCACTGACCTGTGCTTTTGGAGACCCAGATGTCAACATACCAATCTGGAA
 TTTGAAATATGTGGGGCCCTCGTGGAGGTAAGTGCCTGAATTTTCAGGAACTACAAGAGATATATTTCA
 TCGAGACAAAGAAATTTACTGATTGGAAGAGCAATATATGTGTGAAGTTGGAGAAAAGAGTCTAAC
 CTGCAAAAAATAGACCTAACCCTATAGTTAAACCTGAGGCTCCTTTTACCTGAGTGCATCTATCGG
 GAAGGAGCCAATGACTTTGTGGTGACATTTAATACATCACACTTGCAAAAAGAAGTATGTAAGTTTAA
 TGCACGATGTAGCTTACCGCCAGGAAAAGGATGAAAACAATGGACGCATGTGAATTTATCCAGCACAAA
 ACTGACTCCTGCAGAGAAAGCTCCAACCGGCAGCAATGTATGAGATTAAGTTCGATCCATCCCTGAT
 CACTATTTTAAAGGCTTCTGGAGTGAATGGAGTCCAAGTTATTACTTCAGAACTCCAGAGATCAATAATA
 GCTCAGGGGAGATGGATCCTATCTTACTAACCATCAGCATTGAGTTTTTCTGTGCTCTGTTGGT
 CATCTTGGCCTGTGTGTTATGGAAAAAAGGATTAAGCCTATCGTATGGCCAGTCTCCCGATCATAAG
 AAGACTCTGGAACATCTTTGTAAGAAACCAAGAAAAATTTAAATGTGAGTTTCAATCCTGAAAGTTTCC
 TGGACTGCCAGATTCATAGGGTGGATGACATTCAGCTAGAGATGAAGTGAAGGTTTTCTGCAAGATAC
 GTTTCCTCAGCACTAGAAGAATCTGAGAAGCAGAGGCTTGGAGGGGATGTGCAGAGCCCACTGCCCA
 TCTGAGGATGTAGTCATCACTCCAGAAAGCTTTGGAAGAGATTCATCCCTCACATGCCTGGCTGGGAATG
 TCAGTGCATGTGACGCCCTATTCTCTCCCTCCAGGTCCTAGACTGCAGGGAGAGTGGCAAGAATGG
 GCCTCATGTGTACCAGGACCTCCTGCTTAGCCTTGGGACTACAAACAGCAGCTGCCCCCTCCATTTTCT
 CTCCAATCTGGAATCCTGACATTGAACCCAGTTGCTCAGGGTCAGCCATTCTTACTTCCCTGGGATCAA
 ATCAAGAAGAAGCATATGTCACCATGTCCAGTCTTACCAAAAACCAG

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG209687 representing NM_002185
 Red=Cloning site Green=Tags(s)

MTILGTTFGMVFSLQVVSAGESGYAQNGLDLEAELDDYSFSCYSQLEVNQSQHSLTCAFEDPDVNITNLE
 FEICGALVEVKCLNFRKLQEIYFIETKKFLLIGKSNICVKVGEKSLTCKKIDLTTIVKPEAPFDLSVIYR
 EGANDFVVTFNLSHLQKKYVKVLMHDVAYRQEKDENKWHVNLSTKLTLQRKLQPAAMYIIVKRSIPD
 HYFKGFWEWSPSYFFRTPENNSSGEMDPILLTISILSFFSVALLVILACVLWKKRIKPIVWPSLPDHK
 KTLHLCKKPRKNLNVSNPESFLDCQIHRVDDIQARDEVEGFLQDTFFPQQLEESEKQRLGGDVQSPNCP
 SEDVVTPESEFGRDSSLTCLAGNVSACDAPILSPSRSLDCRESGKNGPHVYQDLLLSLGTNSTLPPPF
 LQSGILTLPVAQGQPILTSLGSNQEEAYVTMSSFYQNQ

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_002185

ORF Size: 1377 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.

RefSeq: [NM_002185.2](#), [NP_002176.2](#)

RefSeq Size: 1809 bp

RefSeq ORF: 1380 bp

Locus ID: 3575

UniProt ID: [P16871](#)

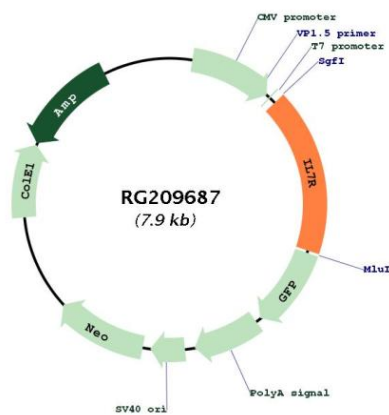
Cytogenetics: 5p13.2

Protein Families: Druggable Genome, ES Cell Differentiation/IPS, Transmembrane

Protein Pathways: Cytokine-cytokine receptor interaction, Hematopoietic cell lineage, Jak-STAT signaling pathway, Primary immunodeficiency

Gene Summary: The protein encoded by this gene is a receptor for interleukin 7 (IL7). The function of this receptor requires the interleukin 2 receptor, gamma chain (IL2RG), which is a common gamma chain shared by the receptors of various cytokines, including interleukins 2, 4, 7, 9, and 15. This protein has been shown to play a critical role in V(D)J recombination during lymphocyte development. Defects in this gene may be associated with severe combined immunodeficiency (SCID). Alternatively spliced transcript variants have been found. [provided by RefSeq, Dec 2015]

Product images:



Circular map for RG209687