

Product datasheet for **RC223766**

CRLF2 (NM_001012288) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: CRLF2 (NM_001012288) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: CRLF2
Synonyms: CRL2; CRLF2Y; TSLPR
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RC223766 representing NM_001012288
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGTTTATTACCTGAAACCCAGTTCCTCCGAAGCACGTGAGATTTTCGTGGCATCAGGATGCAGTGACGG
TGACGTGTTCTGACCTGTCCTACGGGGATCTCCTCTATGAGGTTCCAGTACCGGAGCCCTTCGACACCGA
GTGGCAGTCCAAACAGGAAAATACCTGCAACGTCACCATAGAAGGCTTGGATGCCGAGAAGTGTACTCT
TTCTGGGTCAGGGTGAAGGCTATGGAGGATGTATATGGCCAGACACATACCCAAGCGACTGGTCAGAGG
TGACATGCTGGCAGAGAGGCGAGATTCGGGATGCCTGTGCAGAGACACCAACGCCTCCCAAACCAAAGCT
GTCCAAATTTATTTAATTTCCAGCCTGGCCATCCTTCTGATGGTGTCTCTCCTCCTTGTCTTTATGG
AAATTATGGAGAGTGAGGAAGTTTCTCATTCCCAGCGTGCCAGACCCGAAATCCATCTTCCCGGGCTCT
TTGAGATACCAAGGGAAGTCCAGGAGTGGATCACAGACACCCAGAACGTGGCCACCTCCACAAGAT
GGCAGGTGCAGAGCAAGGAAGTGGCCCTGAGGAGCCCTGGTGGTCCAGTTGGCCAAGACTGAAGCCGAG
TCCCCAGGATGCTGGACCCACAGACCGAGGAGAAAGAGGCCCTCTGGGGGATCCCTCCAGCTTCCCCACC
AGCCCTCCAAGGTGGTATGTGGTCACAATCGGGGACTTACCTTTGTGATGAATGACCCTCTACGT
GGCGTTG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC223766 representing NM_001012288
 Red=Cloning site Green=Tags(s)

MVYYLKPSSPKHVRF SWHQDAVTVTCS DLSYGDLLYE VQYRSPFDTEWQSKQENTCNVTIEGLDAEK CYS
 FWVRVKAMEDVYGPDTYPSDWSEVTCWQRGEIRDACAETPTPPKPKLSKFILISSLAILLMVSLLLLSLW
 KLWRVRKFLIPSPDPKSIFPGLFEIHQGNFQEWITDTQNV AHLHKMAGAEQSGSGPEEPLVVQLAKTEAE
 SPRMLDPQTEEKEASGGS LQLPHQPLQGGDVVTIGDFTFVMNDRSYVAL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_001012288

ORF Size: 777 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_001012288.1](#), [NP_001012288.1](#)

RefSeq Size: 1013 bp

RefSeq ORF: 780 bp

Locus ID: 64109

UniProt ID: [Q9HC73](#)

Cytogenetics: X;Y

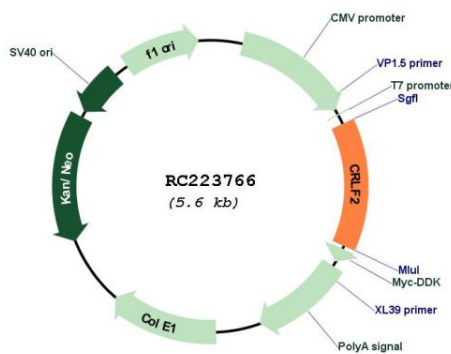
Protein Families: Druggable Genome, Secreted Protein, Transmembrane

Protein Pathways: Cytokine-cytokine receptor interaction, Jak-STAT signaling pathway

MW: 29.2 kDa

Gene Summary: This gene encodes a member of the type I cytokine receptor family. The encoded protein is a receptor for thymic stromal lymphopoietin (TSLP). Together with the interleukin 7 receptor (IL7R), the encoded protein and TSLP activate STAT3, STAT5, and JAK2 pathways, which control processes such as cell proliferation and development of the hematopoietic system. Rearrangement of this gene with immunoglobulin heavy chain gene (IGH) on chromosome 14, or with P2Y purinoceptor 8 gene (P2RY8) on the same X or Y chromosomes is associated with B-progenitor acute lymphoblastic leukemia (ALL) and Down syndrome ALL. Alternatively spliced transcript variants have been found for this gene. [provided by RefSeq, Sep 2014]

Product images:



Circular map for RC223766