

Product datasheet for **RG223766**

CRLF2 (NM_001012288) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CRLF2 (NM_001012288) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	CRLF2
Synonyms:	CRL2; CRLF2Y; TSLPR
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG223766 representing NM_001012288 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTTTATTACCTGAAACCCAGTTCCCGAAGCACGTGAGATTTTCGTGGCATCAGGATGCAGTGACGG
TGACGTGTTCTGACCTGTCCTACGGGGATCTCCTCTATGAGGTTCCAGTACCGGAGCCCTTCGACACCGA
GTGGCAGTCCAAACAGGAAAATACCTGCAACGTACCATAGAAGGCTTGGATGCCGAGAAGTGTACTCT
TTCTGGGTCAGGGTGAAGGCTATGGAGGATGTATATGGCCAGACACATACCCAAGCGACTGGTCAGAGG
TGACATGCTGGCAGAGAGGCGAGATTCGGGATGCCTGTGCAGAGACACCAACGCCTCCCAAACCAAAGCT
GTCCAAATTTATTTAATTTCCAGCCTGGCCATCCTTCTGATGGTGTCTCTCCTCTGTCTTTATGG
AAATTATGGAGAGTGAGGAAGTTTCTCATTCCCAGCGTGCCAGACCCGAAATCCATCTTCCCGGGCTCT
TTGAGATACACCAAGGGAAGTCCAGGAGTGGATCACAGACACCCAGAACGTGGCCACCTCCACAAGAT
GGCAGGTGCAGAGCAAGGAAGTGGCCCTGAGGAGCCCCTGGTGGTCCAGTTGGCCAAGACTGAAGCCGAG
TCCCCCAGGATGCTGGACCCACAGACCGAGGAGAAAGAGGCCCTCTGGGGGATCCCTCCAGCTTCCCCACC
AGCCCTCCAAGGTGGTATGTGGTCACAATCGGGGACTTCACCTTTGTGATGAATGACCCTCTACGT
GGCGTTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG223766 representing NM_001012288
 Red=Cloning site Green=Tags(s)

MVYYLKPSSPKHVRFSWHQDAVTVTCSDLISYGDLLYEYVQYRSPFDTEWQSKQENTCNVTIEGLDAEKCYSL
 FWVRVKAMEDVYGPDTYPSDWSEVTCWQRGEIRDACAETPTPPKPKLSKFILISSLAILLMVSLLLLSLW
 KLWRVRKFLIPSVDPKSIFFGLFEIHQGNFQEWITDTONVAHLHKMAGAEQSGSGPEEPLVVQLAKTEAE
 SPRMLDPQTEEKEASGSSLQLPHQPLQGGDVVTIGDFTFVMNDRSYVAL

TRTRPLE - GFP Tag - V

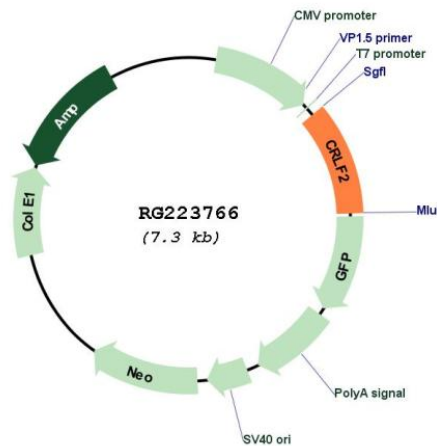
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



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:	<ol style="list-style-type: none">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
Gene Summary:	<p>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]</p>