

Product datasheet for RC230995

IL24 (NM_001185157) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: IL24 (NM_001185157) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: IL24
Synonyms: C49A; FISP; IL10B; MDA7; MOB5; ST16
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RC230995 representing NM_001185157
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGAATTTTCAACAGAGGCTGCAAAGCCTGTGGACTTTAGCCAGCAGACCCTTCTGCCCTCCTTTGCTGG
 CGACAGCCTCTCAAATGCAGATGGTTGTGCTCCCTTGCCTGGGTTTTACCCTGCTTCTCTGGAGCCAGT
 ATCAGGGGCCAGGGCCAAGAATTCACATTTGGGCCCTGCCAAGTGAAGGGGTTGTTCCCGAGAACTG
 TGGGAAGCCTTCTGGGCTGTGAAAGACACTATGCAAGCTCAGGATAACATCACGAGTGCCCGGCTGCTGC
 AGCAGGAGGTTCTGCAGAACGTCTCGCAAGAAAATGAGATGTTTTCCATCAGAGACAGTGACACAGGCG
 GTTCTGCTATTCCGGAGAGCATTCAAACAGTTGGACGTAGAAGCAGCTCTGACCAAAGCCCTTGGGGAA
 GTGGACATTCTTCTGACCTGGATGCAGAAATTCTACAAGCTC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC230995 representing NM_001185157
 Red=Cloning site Green=Tags(s)

MNFQQRLQSLWTLASRPFCPPLLATASQMVMVLPCLGFTLLLSQVSGAQGFHFGPCQVKGVVPQKL
 WEAFWAVKDTMQAQDNITSARLLQQEVLQNVSQENEMFSIRDSAHRRFLLFRRAFKQLDVEAALTKALGE
 VDILLTWMQKFKYL

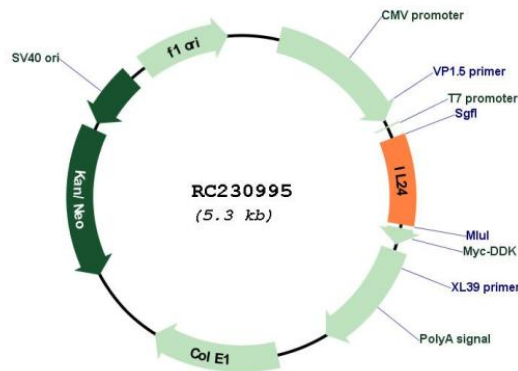
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI



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Cloning Scheme:

Plasmid Map:


ACCN: NM_001185157

ORF Size: 462 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:	<u>NM_001185157.1, NP_001172086.1</u>
RefSeq ORF:	465 bp
Locus ID:	11009
UniProt ID:	<u>Q13007</u>
Cytogenetics:	1q32.1
Protein Families:	Druggable Genome, Secreted Protein
Protein Pathways:	Cytokine-cytokine receptor interaction, Jak-STAT signaling pathway
MW:	18.2 kDa
Gene Summary:	This gene encodes a member of the IL10 family of cytokines. It was identified as a gene induced during terminal differentiation in melanoma cells. The protein encoded by this gene can induce apoptosis selectively in various cancer cells. Overexpression of this gene leads to elevated expression of several GADD family genes, which correlates with the induction of apoptosis. The phosphorylation of mitogen-activated protein kinase 14 (MAPK7/P38), and heat shock 27kDa protein 1 (HSPB2/HSP27) are found to be induced by this gene in melanoma cells, but not in normal immortal melanocytes. Alternatively spliced transcript variants encoding distinct isoforms have been reported. [provided by RefSeq, Jul 2008]