

Product datasheet for **RG216502**

IL24 (NM_006850) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: IL24 (NM_006850) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: IL24
Synonyms: C49A; FISP; IL10B; MDA7; MOB5; ST16
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG216502 representing NM_006850
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGAATTTTCAACAGAGGCTGCAAAGCCTGTGGACTTTAGCCAGCAGACCCTTCTGCCCTCCTTTGCTGG
 CGACAGCCTCTCAAATGCAGATGGTTGTGCTCCCTTGCTGGGTTTTACCTGCTTCTCTGGAGCCAGGT
 ATCAGGGGCCAGGGCCAAGAATTCACCTTTGGCCCTGCCAAGTGAAGGGGGTGTTCACAGAACTG
 TGGGAAGCCTTCTGGGCTGTGAAAGACACTATGCAAGCTCAGGATAACATCACGAGTGCCCGGCTGCTGC
 AGCAGGAGTTCTGCAGAACGTCTCGGATGCTGAGAGCTTTACCTTGCCACACCCTGCTGGAGTTCTA
 CTTGAAAACCTGTTTTCAAAAACCTACCACAATAGAACAGTTGAAGTCAGGACTCTGAAGTCATTCTCTACT
 CTGGCCAACAACCTTTGTTCTCATCGTGTCAAACTGCAACCCAGTCAAGAAAATGAGATGTTTTCCATCA
 GAGACAGTGCACACAGGCGGTTTCTGCTATTCCGGAGAGCATTCAAACAGTTGGACGTAGAAGCAGCTCT
 GACCAAAGCCCTTGGGAAGTGGACATTCTTGACCTGGATGCAGAAATTCTACAAGCTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG216502 representing NM_006850
 Red=Cloning site Green=Tags(s)

MNFQQRLQSLWTLASRPFCPPLLATASQMVMVLPCLGFTLLLSQVSGAQQQEFHFHGPCQVKGVPQKL
 WEAFWAVKDTMQAQNITSARLLQQEVLQNVSDAESCYL VHTLLEFYLKT VFKNYHNRTVEVRTLKSFS
 LANNFVLIVSQLQPSQENEMFSIRDSAHRRFLLFRRAFKQLDVEAALTKALGEVDILLTWMQKFYKL

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI



Cloning Scheme:


ACCN: NM_006850

ORF Size: 618 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_006850.2](#), [NP_006841.1](#)

RefSeq Size: 1975 bp

RefSeq ORF: 621 bp

Locus ID: 11009

UniProt ID: [Q13007](#)

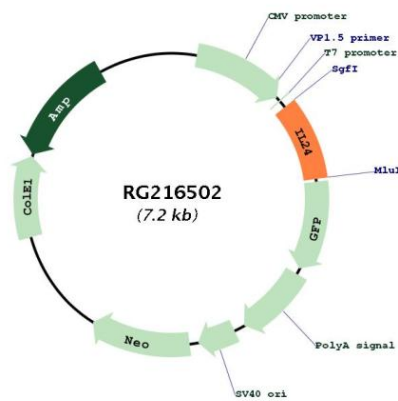
Cytogenetics: 1q32.1

Protein Families: Druggable Genome, Secreted Protein

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

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]

Product images:



Circular map for RG216502