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Product datasheet for RG212217

IL16 (NM_172217) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	IL16 (NM_172217) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	IL16
Synonyms:	LCF; NIL16; prIL-16; PRIL16
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence:

>RG212217 representing NM_172217
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGAGTCGCACAGCCGCGCTGGAAAGAGCAGAAAATCTGCAAAATTTCGGTCCATCTCCAGGTCCCTGA
TGCTCTGTAATGCTAAGACCAGTGATGATGGCTCTAGCCCTGATGAGAAATATCCTGATCCCTTTGAGAT
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GAACGAGAGAAGAACTCAGCACCCCCGCATCGCAGGGCTCAGAAGGTCATGATCCGCTCCAGCAGTGACA
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GACTCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG212217 representing NM_172217
Red=Cloning site Green=Tags(s)

MESHSRAGKSRKSAKFRSISRSLMLCNAKTSDDGSSPDEKYPDPFEISLAQGKEGIFHSSVQLADTSEAG
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SVNPYCTREIDFPMTKKSAAPTDRQPYSLCSNRKSLSQQLDCPAGKAAGTSRPTRSLSTAQLVQPSGGLQ
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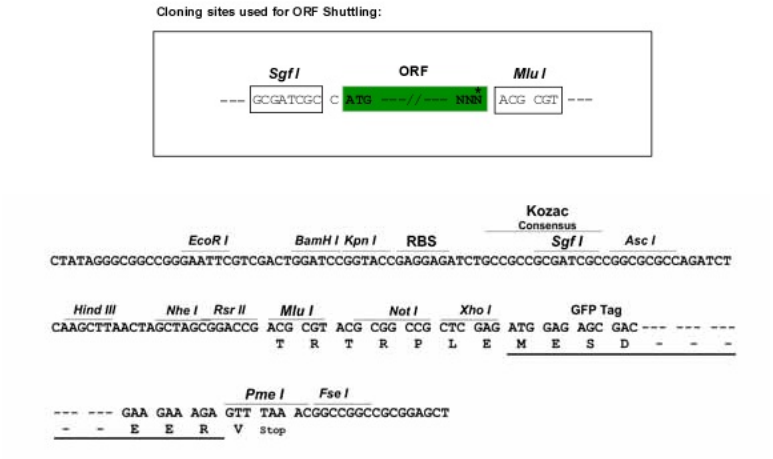
DS

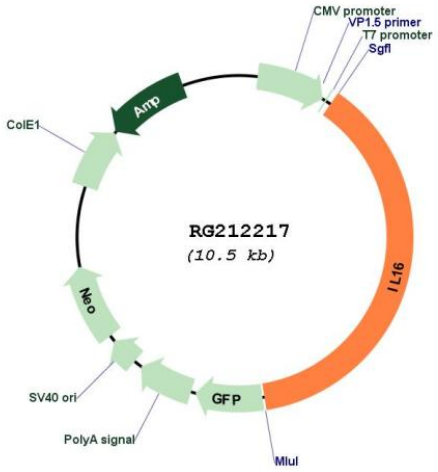
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN:	NM_172217
ORF Size:	3996 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_172217.4
RefSeq Size:	8338 bp
RefSeq ORF:	3999 bp
Locus ID:	3603
UniProt ID:	Q14005
Cytogenetics:	15q25.1

Protein Families: Druggable Genome, Secreted Protein

Gene Summary: The protein encoded by this gene is a pleiotropic cytokine that functions as a chemoattractant, a modulator of T cell activation, and an inhibitor of HIV replication. The signaling process of this cytokine is mediated by CD4. The product of this gene undergoes proteolytic processing, which is found to yield two functional proteins. The cytokine function is exclusively attributed to the secreted C-terminal peptide, while the N-terminal product may play a role in cell cycle control. Caspase 3 is reported to be involved in the proteolytic processing of this protein. Alternate splicing results in multiple transcript variants. [provided by RefSeq, Feb 2010]