

Product datasheet for **MC210208**

II21 (NM_021782) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	II21 (NM_021782) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	II21
Synonyms:	IL-21
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>MC210208 representing NM_021782 Red=Cloning site Blue=ORF

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAGAGGACCCTTGTCTGTCTGGTAGTCATCTTCTTGGGGACAGTGGCCATAAATCAAGCCCCAAG
GGCCAGATCGCCTCCTGATTAGACTTCGTACCTTATTGACATTGTTGAACAGCTGAAAACTATGAAAA
TGACTTGGATCCTGAACCTCTATCAGCTCCACAAGATGTAAGGGGCACTGTGAGCATGCAGCTTTGCC
TGTTTTCAGAAGGCCAACTCAAGCCATCAAACCTGAAACAATAAGACATTCATCATCGACCTCGTGG
CCCAGCTGAGGAGGAGGCTGCCTGCCAGGAGGGGAGAAAGAAACAGAAGCACATAGCTAAATGCCCTTC
CTGTATTGATGAGAAAAGAACCACCCAAAGAATTCCTAGAAAGACTAAAATGGCTCCTCAAAGATG
ATTCATCAGCATCTCTCTAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:	Sgfl-MluI
ACCN:	NM_021782
Insert Size:	441 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).



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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>BC125414</u> , <u>AAI25415</u>
RefSeq Size:	2421 bp
RefSeq ORF:	441 bp
Locus ID:	60505
UniProt ID:	<u>Q9ES17</u>
Cytogenetics:	3 B
Gene Summary:	<p>Cytokine with immunoregulatory activity. May promote the transition between innate and adaptive immunity. Induces the production of IgG(1) and IgG(3) in B-cells. May play a role in proliferation and maturation of natural killer (NK) cells in synergy with IL15. May regulate proliferation of mature B- and T-cells in response to activating stimuli. In synergy with IL15 and IL18 stimulates interferon gamma production in T-cells and NK cells (By similarity). During T-cell mediated immune response may inhibit dendritic cells (DC) activation and maturation.[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (2) lacks a segment in the 3' coding region which results in a frameshift compared to variant 1. The encoded isoform (2) is shorter and has a distinct C-terminus compared to isoform 1. Sequence Note: The RefSeq transcript and protein were derived from genomic sequence to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on alignments.</p>