

# Certificate of Analysis

Product ID: OHu20116D Lot. No.: 817240143-1/H27773

Product Information:

Gene Symbol: IL4 Accession No.: NM\_172348

Cloning Vector: pcDNA3.1<sup>+</sup>/C-(K)DYK Gene Length\*: 414 bp

Cloning Strategy: CloneEZ Plasmid Size: 5804 bp

Antibiotic Resistance: Ampicillin, recommended concentration: 50 µg/ml Amount: 10 µg

Note: \* The stop codon has not been included in gene length calculation. And the detail sequence showed in attachment 2

Storage: Store at -20°C  
The ORF clone is shipped at room temperature, but should be kept at -20°C for long-term storage.

QC Items	Specifications	Results	
Sequencing Alignment	Sequencing results are consistent with the targeted insert sequence.	Pass	Consistent
Vector Sequence	The flanking sequences of the cloning sites are correct.	Pass	Correct Shown in the SQD file
Restriction Digests	The size of inserted fragment is correct and free of unexpected bands suggesting contamination.	Pass	Correct Shown in attachment 1
DNA Quality	Miniprep: 10 µg OD260/280=1.8~2.0 Free of contamination	Pass	≥ 10 µg OD260/280=1.87 Pure
Quality Grade	Research Grade	Pass	Research Grade
Appearance	Clear and free of foreign particles.	Pass	Clear Free of foreign particles
Additional Test		N/A	

Certified by: *Morgan* Date: 09/01/2016

Thank you for your patronage to our Gene services! To maintain this working relationship, we shall be grateful if you can add our webpage URL into your lab website. As a token of appreciation, you will be rewarded by 1,000 EZcoupon™ points. For more information, please contact us by e-mail at [web@genscript.com](mailto:web@genscript.com).

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Toll-Free: 1-877-436-7274

Tel: 1-732-885-9188

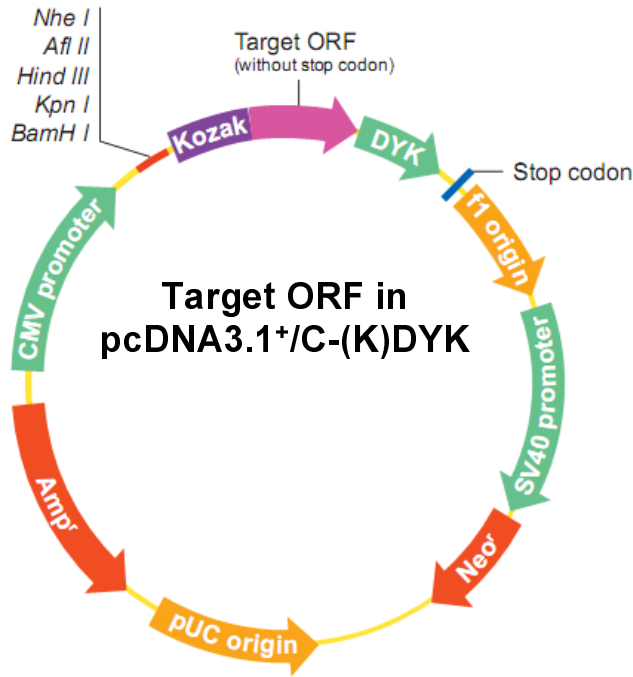
Fax: 1-732-210-0262

Email: [order@genscript.com](mailto:order@genscript.com)

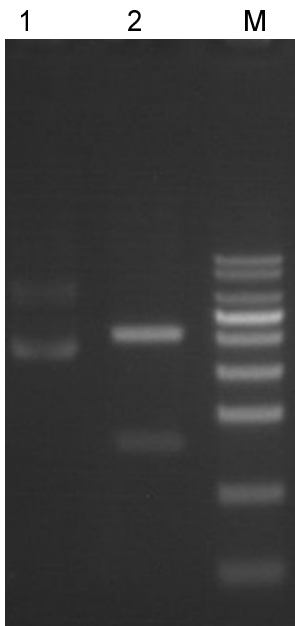
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Plasmid Construct Map

The ORF was cloned in pcDNA3.1<sup>+</sup>/C-(K)DYK by CloneEZ.

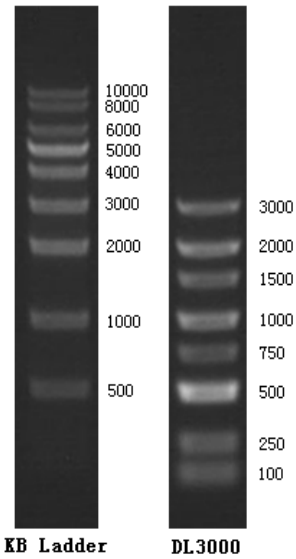


Enzyme Digestion



Lane M: KB Ladder  
Lane 1: OHu20116D plasmid  
Lane 2: OHu20116D plasmid digested by HindIII and SmaI

**Digestion Conditions:**  
~ 300ng plasmid digested  
Digestion in water-bath, 37°C for 40 minutes  
1% Agarose Gel



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**Attachment 2****Original ORF Sequence (Including start and stop codons)**

```
ATGGGTCTCA CCTCCAACT GTTCCCCT CTGTTCTTCC TGCTAGCATG TGCCGGCAAC TTTGTCCAG GACACAAGTG CGATATCACC TTACAGGAGA
TCATCAAAAC TTTGAACAGC CTCACAGAGC AGAAGAACAC AACTGAGAAG GAAACCTTCT GCAGGGCTGC GACTGTGCTC CGGCAGTTCT ACAGCCACCA
TGAGAAGGAC ACTCGTGCC TGGGTGCGAC TGCACAGCAG TTCCACAGGC ACAAGCAGCT GATCCGATTC CTGAAACGGC TCGACAGGAA CCTCTGGGGC
CTGGCGGGCT TGAATTCCTG TCCTGTGAAG GAAGCCAACC AGAGTACGTT GGAAACTTC TTGAAAGGC TAAAGACGAT CATGAGAGAG AAATATTCAA
AGTGTTTCGAG CTGA
```

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