

# Certificate of Analysis

Product ID: OHu30724D Lot. No.: 817289756-1/R78722

Product Information:

Gene Symbol: MRPL44 Accession No.: NM\_022915

Cloning Vector: pcDNA3.1<sup>+</sup>/C-(K)DYK Gene Length\*: 999 bp

Cloning Strategy: CloneEZ Plasmid Size: 6389 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<br>Shown in the SQD file   |
| Restriction Digests  | The size of inserted fragment is correct and free of unexpected bands suggesting contamination. | Pass    | Correct<br>Shown in attachment 1   |
| DNA Quality          | Miniprep: 10 µg<br>OD260/280=1.8~2.0<br>Free of contamination                                   | Pass    | ≥ 10 µg<br>OD260/280=1.87<br>Pure  |
| Quality Grade        | Research Grade  | Pass    | Research Grade                     |
| Appearance           | Clear and free of foreign particles.  | Pass    | Clear<br>Free of foreign particles |
| Additional Test      |   | N/A     |                                    |

Certified by: *Morgan* Date: 10/25/2016

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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Tel: 1-732-885-9188

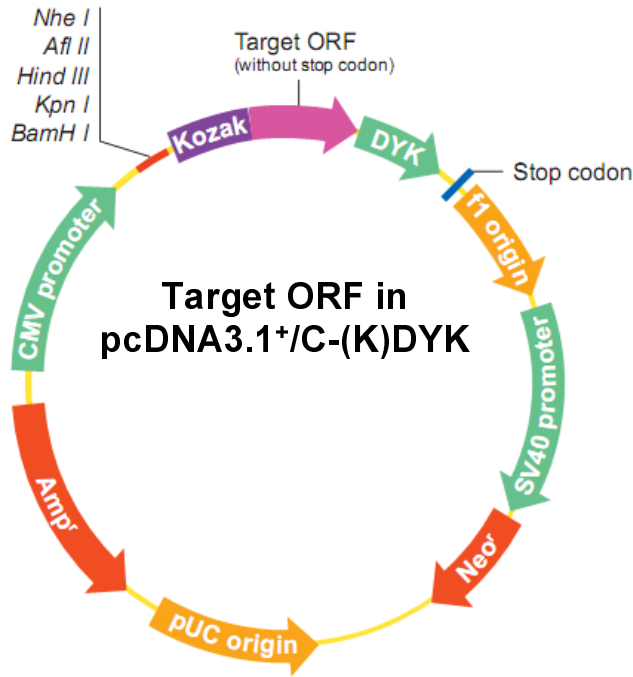
Fax: 1-732-210-0262

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

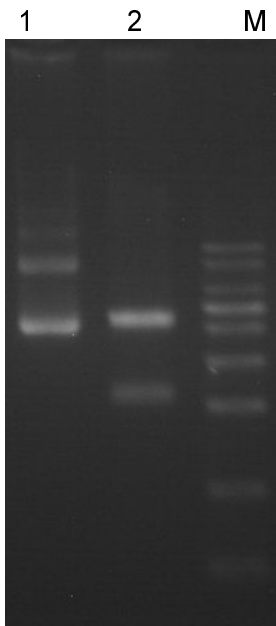
Web: [www.genscript.com](http://www.genscript.com)

Plasmid Construct Map

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

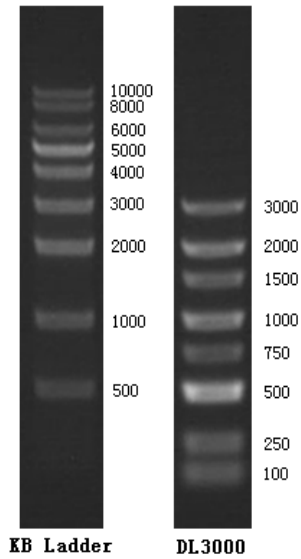


Enzyme Digestion



Lane M: KB Ladder  
Lane 1: OHu30724D plasmid  
Lane 2: OHu30724D plasmid digested by KpnI 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)**

```
ATGGCGTCCG GGCTGGTAAG ATTGCTGCAG CAGGGACATC GCTGCCTCCT GGCTCCAGTC GCCCCAAGC TGGTCCCTCC GGTTCCGGGA GTGAAGAAGG
GATTCGCGC CGCCTTCCGC TTCCAGAAGG AGTTAGAGCG GCAGCGCCTT CTGCGGTGCC CGCCGCCGCC CGTGCGCCGT TCAGAGAAGC CGAACTGGGA
TTACCATGCA GAAATACAAG CTTTGGGACA TCGGTTACAG GAAAACTTTT CCTTAGATCT TCTCAAAACT GCATTTGTTA ATAGCTGCTA TATTAAGAAGT
GAGGAGGCCA AACGCCAACA ACTTGGGATA GAGAAAGAAG CTGTTCTTCT GAATCTTAAA AGTAATCAAG AACTATCCGA ACAAGGGACA TCTTTTTCAC
AGACTTGCTT TACACAGTTT CTTGAAGACG AGTACCCAGA CATGCCCACT GAAGGCATAA AAAATCTTGT TGACTTTTCT ACTGGTGAGG AAGTCGTGTG
TCACGTGGCT AGAAACTTGG CTGTGGAGCA GTTAACACTG AGTGAAGAAT TCCCAGTGCC CCCAGCTGTG TTACAGCAGA CTTTCTTTGC AGTTATTGGA
GCCCTGTTAC AGAGCAGTGG ACCTGAGAGG ACTGCACTTT TCATCAGGGA CTTCTTAATT ACTCAAATGA CTGGAAAAGA GCTCTTTGAG ATGTGGAAGA
TAATAAATCC CATGGGGCTA TTGGTAGAAG AACTGAAGAA AAGGAATGTT TCAGCTCCTG AATCAAGACT TACTAGGCAG TCTGGTGGA CCACAGCTTT
GCCTTTGTAT TTTGTTGGCT TATACTGTGA TAAAAAGTTG ATTGCAGAAG GACCTGGGA AACAGTATTG GTTGCAGAAG AAGAGGCTGC TCGAGTGGCC
CTTAGAAAAC TTTATGGATT CACAGAAAAT AGACGGCCGT GGAAC TATTC CAAGCCAAA GAAACCTTGA GAGCAGAAAA GAGCATCACT GCCAGCTAG
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