

Product datasheet for **MR224574**

Isg2012 (NM_177663) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Isg2012 (NM_177663) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Isg2012
Synonyms:	4930429N24; C80587
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR224574 representing NM_177663 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGC**C

ATGTCTACCATACTCCTGAATTTAGACTTTGGGCAACCTTCGAAAAAGGCATTTGGAGGAAATGCCAAAC
 ATCAACGCTTTGTCAAGAAGCGAAGGTTCTTGGAACAGAAAGGATTTCTGAATAAAAAGAACCAACCCCC
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 AGAAAGCACCATTGTCTTGGCTGACCCCTGCTCCTTCAAAGAAGACTGCTTCTGTTGTGTCTAAATAGA
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 TCCTTGAAAAAGAAAATTGCTACAGAGAACTCCACCCAAGCTCAGTCAAAGGATAAAGGCTCCAAGAAGA
 AGCCCTTGAGAAAAATGCTGTACCGAACTCCACCCAAGCTCGTTCTGAAGATAAGTGCCCTACAGTCCC
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 AGTTCCTGGCTCGATGCAGCATTGTAAATTACAATGGTGATGTGCTGTACGATGAGTACGTCTCCCCC
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 CTTTAAGACTGCTCGGAGTCAGATCTTGAAGATACTCTCAGGGAAGGTAGTGATAGGGCATGCCATTAC
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 TCAACCGGAAGGCTGACTGCCAGAAAATGTCACTTTGTCACTGAAGCATCTCACAAGAAGCTCCTGAG
 TCGGGACATCCAGGTTGGAATACTGGACATTCTCGGTGGAAGATGCCAGGCCACAATGGAGCTGTAC
 AAGTTGGTTGAAGTTGAATGGGAACAGCACCTGGCCAGAATCCTCCAGAAAA

AG**CGGACCG**ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
 TGGATTACAAGGATGACGACGATAAGGTTTAA


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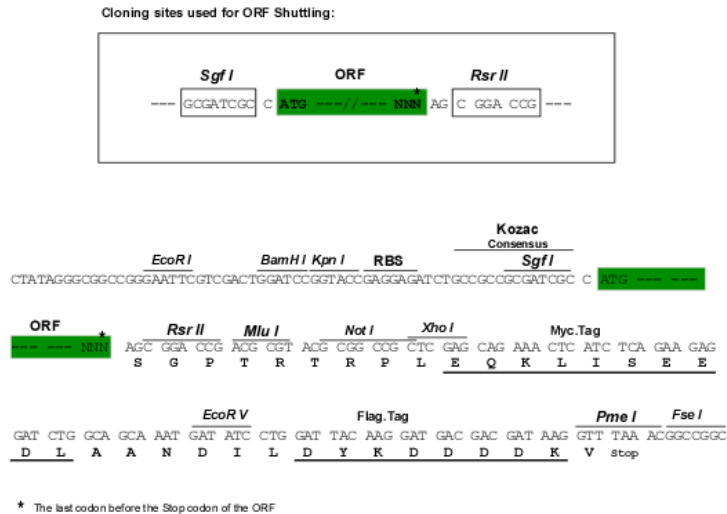
Protein Sequence: >MR224574 representing NM_177663
 Red=Cloning site Green=Tags(s)

MSTILLNLDGQPSKKAFFGGNAKHQRFVKKRRFLEQKGFLLNKKNPNNKVSCLNSEPPKKGETSRVDGIL
 KILPCPKKKEAAASKRDEQSKDKKAPLSWLTPAPSKKTASVSKIDLLGEFQSALPKTKSTQKKGSKKK
 SLKKKIATENSTQAQSKDKGSKKKPLKKNAPNSTQARSEDKCPTVPQNLPGKMVAIDCEMVGTGPKGRV
 SSLARCSIVNYNGDVL YDEYVLPCCYIVNYRTRWSGIRKCHMVNATPFKTARSQILKILSGKVVIHAIH
 NDYKALQYFHPKSLTRDTSRIPLLNRKADCPENVTL SLKHLTKKLLSRDIQVGNTGHSSVEDAQATMELY
 KLVEVEWEQHLAQNPEN

SGPTRTRRLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-RsrII

Cloning Scheme:



ACCN: NM_177663

ORF Size: 1104 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_177663.4](#), [NP_808331.1](#)

RefSeq Size: 2893 bp

RefSeq ORF: 1107 bp

Locus ID: 229504

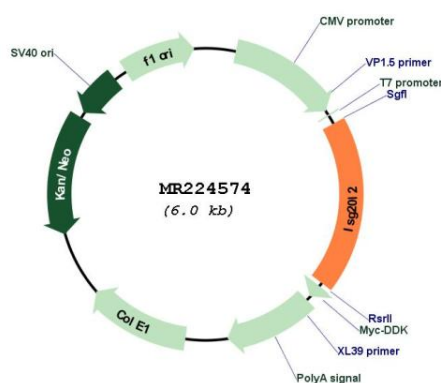
UniProt ID: [Q3U1G5](#)

Cytogenetics: 3 F1

MW: 41.4 kDa

Gene Summary: 3'-> 5'-exoribonuclease involved in ribosome biogenesis in the processing of the 12S pre-rRNA. Displays a strong specificity for a 3'-end containing a free hydroxyl group.
[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR224574