

Product datasheet for **RC203178**

ISG20 (NM_002201) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: ISG20 (NM_002201) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: ISG20
Synonyms: CD25; HEM45
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RC203178 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCTGGGAGCCGTGAGGTGGTGGCCATGGACTGCGAGATGGTGGGGCTGGGGCCCCACGGGAGAGTG
GCCTGGCTCGTTGCAGCCTCGTGAACGTCCACGGTGCTGTGCTGTACGACAAGTTCATCCGGCTGAGGG
AGAGATACCCGATTACAGAACCCTGGTCCAGCGGGTCCACCTCAGCACATGGTGGGGGCCACACCATTT
GCCGTGGCCAGGCTAGAGATCCTGCAGCTCCTGAAAGGCAAGCTGGTGGTGGGTCACTGACCTGAAGCAGC
ACTTCCAGGCACTGAAAGAGGACATGAGCGGCTACACAATCTACGACACGTCCACTGACAGGCTGTTGTG
GCGTGAGGCCAAGCTGGACCACTGCAGGCGTGTCTCCCTGCGGGTGTGAGTGAGCGCCTCCTGCACAAG
AGCATCCAGAACAGCCTGCTTGGACACAGCTCGGTGGAAGATGCGAGGGCAACGATGGAGCTCTATCAA
TCTCCAGAGAATCCGAGCCCGGAGGGCTGCCCCGCTGGCTGTGTCAGAC

ACGCGTACGCGGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC203178 protein sequence
Red=Cloning site Green=Tags(s)

MAGSREVVAMDCEMVGLGPHRESGLARCSLVNVHGAFLYDKFIRPEGEITDYRTRVSGVTPQHMGVATPF
AVARLEILQLLKGKLVVGHDLKHDFQALKEDMSGYTIYDTSTDRLLWREAKLDHCRVSLRVLSERLLHK
SIQNSLLGHSSVEDARATMELYQISQRIRARRGLPRLAVSD

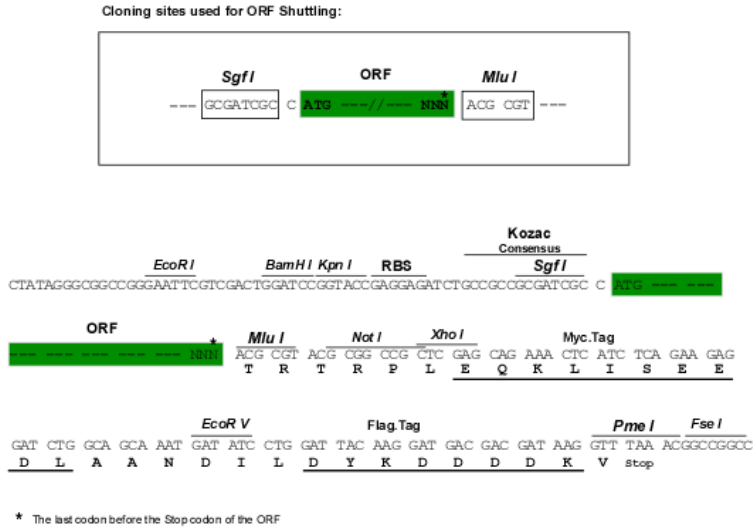
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6078_e10.zip

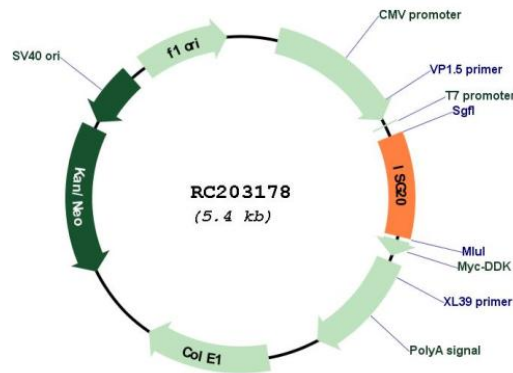


Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_002201

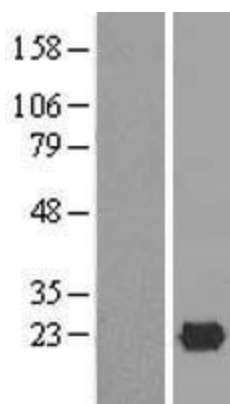
ORF Size: 543 bp

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](#)

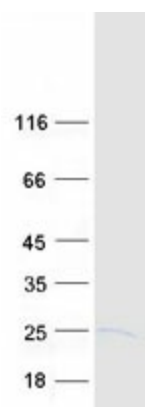
OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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:	<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>NM_002201.4, NP_002192.2</u>
RefSeq Size:	974 bp
RefSeq ORF:	546 bp
Locus ID:	3669
UniProt ID:	<u>Q96AZ6</u>
Cytogenetics:	15q26.1
Domains:	EXOIII
MW:	20.4 kDa
Gene Summary:	Interferon-induced antiviral exoribonuclease that acts on single-stranded RNA and also has minor activity towards single-stranded DNA. Exhibits antiviral activity against RNA viruses including hepatitis C virus (HCV), hepatitis A virus (HAV) and yellow fever virus (YFV) in an exonuclease-dependent manner. May also play additional roles in the maturation of snRNAs and rRNAs, and in ribosome biogenesis.[UniProtKB/Swiss-Prot Function]

Product images:



Western blot validation of overexpression lysate (Cat# [LY419473]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC203178 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified ISG20 protein (Cat# [TP303178]). The protein was produced from HEK293T cells transfected with ISG20 cDNA clone (Cat# RC203178) using MegaTran 2.0 (Cat# [TT210002]).