

Product datasheet for MR211952

Drosha (NM_026799) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Drosha (NM_026799) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Drosha
Synonyms:	1110013A17Rik; AI874853; Etohi2; Rn3; Rnasen
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR211952 representing NM_026799 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCAAGGCAATACGTGTCATAGAATGTCGTACCACCCAGGACGAGGGTGTCCCCGGGGCCGAGGAGGAC
ACGGAGCCAGACCTTCAGCACCAGCTTTACAGCCCAAAACCTGCGACTTCTTATCCCCAGCAGCCGCC
TGCGCAGTATCAATATGAGCCTCCGAGCGCCCCCTTCTCTCTACTCGAACTCTCAGGCCCCAGCTTT
ATGCCCCACGGCCAGACTTTGTCCCTACCCTCCCCAGCGGCCGTCTGCCAAGGGCTCTCCCTC
CCTGCCAGTGAGGCCGCTTACCCCAACCACCAGATGAGACACCCTTCCCGGTGCCTCCCTGTTTTCC
ACCCATGCCCCCTCCGATGCCTTGCCCAATAACCCGCCTGCCTCCGGAGCACCTCCCGACAAGGCACT
TCCCCCTTCATGGTGCCCCCTCCTTCCATGCCCAACCCTCCGCCCCCGCCGTATGCCGACGACAGGTTA
ATTACAGTACCCCCCTGGGTACTCGCACAGCTTCCCACCGCCGGCTTCAACAGTTACCAGAACAACCTC
CAGCTCTTTCCACCCAGTGCTAACAGCAGCAGCACTCCTCATTTTCGACACCTCCCACCACTACTCACTC
CCAAAGGCTCAGAATGAGAGCGGTCCCCAGAAAGGCTCAAGCACTACGACGACCACAGGCCAGGATC
ACAGTACGGGCGAGGCGAGAGGCATCGGTCCCTGGAGCGCAGGGAGCGCGGCCGAGCCCTGAAAGGAG
AAGACCTGAGAGCCGCTACCGCTCAGACTATGATCGGGGAGAACGCCACCGCTCGCCACCGCAGCTAT
GAAAGGAGCAGAGCGGGATCGAGAGACACAGGCACCGGGAGGCCCGCAGATCACCGTCTTAGAAA
GGTCTACAAGAAAGAGTATAAGAGATCTGGAAGGAGTTACGCTTTACCAGTTGCTCCTGAGCCCGCTGG
GTGCACACCAGAGTTGCCTGGGAGATGATTAATAACTACAGAGTCTTGGGCCCGCCCCGGAGAATGTG
AATCATCGTTCTCCAAGCAGGGAGAAGAAGAGAGCTCGTTGGGAGGAGAAAAAGACAGATGGAGCGACA
GCCAGGGCTCTGGCAAAGAGAAGAACTACACGTCCATCAAAGAGAAAGAGGCAGAGGAGGTGCCTCCAGA
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ACCTGTTTCGAGCAGCTCGGACTCGGAGGTGTTTCGATGTCATTGCAGAGATTAACGCAAAAAGGCTCACC
 CTGACCGGCTTCATGATGAACTCTGGTACAACGACCCAGGCCAGATGAACGATGGACCGCTTTGCAAATG
 CAGTGCAAAAAGCCAGACGCACAGGAATCCGCCACAGCATTTATCCCGGAGAAGAGGCAATCAAGCCCTGC
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 CATGCCAGGAATCTTTGTCTAACTGTGGAATTCGACAACCCAAATATGGAGACAGAAAAGTTTCATCACA
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 CACTTTCATGAACGCTGCTCTTTTCCCGGCTGAAGGAGTTCATTCTGAATCAGGATTGGAACGACCCC
 AAGTCGCAGCTGCAGCAGTGTGCTGACCCCTGAGGACAGAAGGGAAAGAGCCTGACATCCCCTTATACA
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 GATAGGCTGTGGGAAAGGACCAAGCATTAGCAGGCGGAGATGGGAGCAGCAATGGATGCACTGGAGAAA
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 TGAGGTGGGAAAGAGAGCATCAGGAGAGAGACCGGAGGAGGCTGAAGACATCAAGAAG

ACGCGTACGCGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGAT AAGGTTTAA

Protein Sequence:

>MR211952 representing NM_026799
 Red=Cloning site Green=Tags(s)

MQGNTCHRMSYHPGRGCPGRGGHGARPAPAFRPNLRLHPQQPPAQYQYPPSAPSSYSNSQAPSF
 MPPRPDFVPYPPPAAPSAQGPLPCPVRRPPYPNHQMRHFFVPPCFPPMPPMPCPNPPASGAPPQGT
 FPFMVPPSPMPHPPPPVMPQQVNYQYPPGYSHSFPFPGFNSYQNNSSFPSSANSSTPHFRHLPPYSL
 PKAQNERRRSPERLKHYYDHRHRDHSRGERHRSLERRERGRSPERRRPESTRYSYDRGRTPPPRHRSY
 ERSRERDRERHRHREARRSPSLERSYKKEYKRSGRSYALPVAPEPAGCTPELPGEMIKTTESWAPPENV
 NHRSPSREKKRARWEEEEKDRWSDSQSGSKEKNYTSIKEKEAEEVPEKTEEEEEELLKPWIRCTHSESY
 YSSDPMQVQVDSTVVGT SRLRDLYDKFEELGNRQEKAKAARPPWEPPKTKLDEDESSESECETDDDS
 TCSSSDSEVFDVIAEIKRKAHPDRLHDELWYNDPGQMNDGPLCKCSAKARRTGIRHSIYPGEEAIKPC
 RPMTNNAAGRLFHRYITVSPPTNFLDRPTVIEYDDHEYIFEGFSMFAHAPLTNIPLCKVIRFNIDYTIHF
 IEEMMPENFCVKGLELFLSLFLFRDILELYDWNKLGPLFEDSPPCCPRFHFMPRFVRLPDGKLEVLSMHQ
 ILLYLLRCSKALVPEEIANMLQWEELEWQYAECKGMIVTNPGTKPSSVRIDQLDREQFNPEVITFPI
 IVHFGIRPAQLSYAGDPQYQKLWKS YVYKLRHLLANSPKVKQTDKQKLAQREEALQKIRQKNTMRREVTVE
 LSSQGFWKTGIRSDVCQHAMMLPVLTHHIRYHQCLMHLDKLIGYTFQDRCLLQLAMTHPSHLLNFGMNP
 HARNLSNCGIRQPKYGDRKVHMHMRKKGINTLINIMSRLQDDPTPSRINHNERLEFLGDVVEFLT
 VHLYYLFPSLEEGGLATYRTAIVQNQHLLAKKLELDRFMLYAHGPDLCRESDLRHAMANCFEALIGAV
 YLEGSLEEAKQLFGRLLFNDDPDLREVWLNYPHLPLQLQEPNTDRQLIETSPVLQKLEFEEAIGVIFTHV
 RLLARAFTLRTVGFNHLTLGHNQRMEFLGDSIMQLVATEYLFIFPHHHEGHLTLLRSSLVNNRTQAKVA
 EELGMQEYAITNDKTRKPVALRTKTLADLLESFIAALYIDKDLEYVHTFMNVCFPRRLKEFILNQDWN
 DPKSQLQCCCLTRTEGKEPDIPLKTLQTVGPHARTYTVAVYFKGERIGCGKGPSIQQAEMGAAMDALEK
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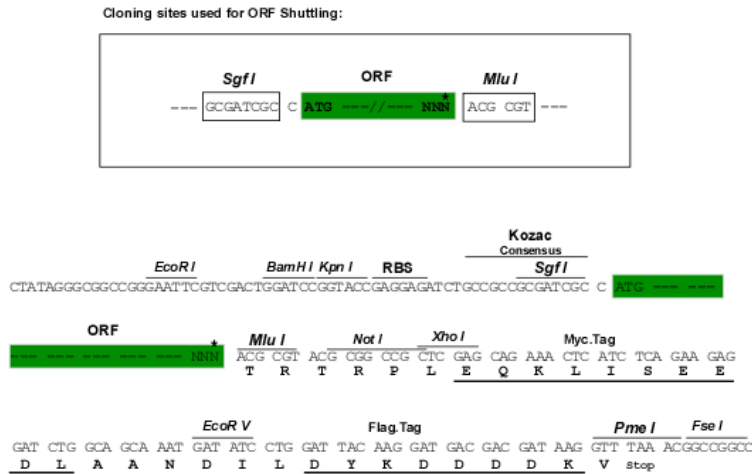
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mm9048_h02.zip

Restriction Sites:

SgfI-MluI

Cloning Scheme:

* The last codon before the Stop codon of the ORF

ACCN:

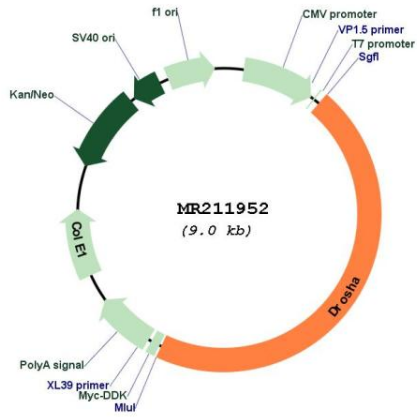
NM_026799

ORF Size:

4119 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:	NM_026799.3 , NP_081075.3
RefSeq Size:	4580 bp
RefSeq ORF:	4122 bp
Locus ID:	14000
UniProt ID:	Q5HZJ0
Cytogenetics:	15 A1
MW:	159.3 kDa
Gene Summary:	Ribonuclease III double-stranded (ds) RNA-specific endoribonuclease that is involved in the initial step of microRNA (miRNA) biogenesis. Component of the microprocessor complex that is required to process primary miRNA transcripts (pri-miRNAs) to release precursor miRNA (pre-miRNA) in the nucleus. Within the microprocessor complex, DROSHA cleaves the 3' and 5' strands of a stem-loop in pri-miRNAs (processing center 11 bp from the dsRNA-ssRNA junction) to release hairpin-shaped pre-miRNAs that are subsequently cut by the cytoplasmic DICER to generate mature miRNAs. Involved also in pre-rRNA processing. Cleaves double-strand RNA and does not cleave single-strand RNA. Involved in the formation of GW bodies. [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR211952