

## Product datasheet for MR227001

### Drosha (NM\_001130149) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Drosha (NM\_001130149) 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:** >MR227001 representing NM\_001130149  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGCAAGGCAATACGTGTCATAGAATGTCGTACCACCCAGGACGAGGGTGTCCCCGGGGCCGAGGAGGAC  
 ACGGAGCCAGACCTTCAGCACCAGCTTTACAGCCCAAAACCTGCGACTTCTTATCCCCAGCAGCCGCC  
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 CCTGCCAGTGAGCGCCTTACCCAACCACCAGATGAGACACCCTTCCCGGTGCCTCCCTGTTTTCC  
 ACCCATGCCCCCTCCGATGCCTTGCCCAATAACCCGCCTGCCTCCGGAGCACCTCCCGACAAGGCACT  
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 CAGCTCTTTCCACCCAGTGCTAACAGCAGCAGCACTCCTCATTTTCGACACCTCCCACCACTACTACTC  
 CCAAAGGCTCAGAATGAGAGCGGTCCCCAGAAAGGCTCAAGCACTACGACGACCACAGGCCAGGATC  
 ACAGTCACGGGCGAGGCGAGAGGCATCGGTCCCTGGAGCGCAGGGAGCGCGGCCGAGCCCTGAAAGGAG  
 AAGACCTGAGAGCCGCTACCGCTCAGACTATGATCGGGGGAGAACGCCACCGCTCGCCACCGCAGCTAT  
 GAAAGGAGCAGAGCGGGATCGAGAGACACAGGCACCGGGAGGCCCGCAGATCACCGTCTTAGAAA  
 GGTCTACAAGAAAGAGTATAAGAGATCTGGAAGGAGTTACGCTTACCAGTTGCTCCTGAGCCCGCTGG  
 GTGCACACCAGAGTTGCCTGGGAGATGATTAATAACTACAGAGTCTTGGGCCCGCCCCGAGAATGTG  
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 GCCAGGGCTCTGGCAAAGAGAAGAACTACAGTCCATCAAAGAGAAAGAGGCAGAGGAGGTGCCTCCAGA  
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ACCTGTTGCGAGCAGCTCGGACTCGGAGGTGTTTCGATGTCATTGCAGAGATTAACGCAAAAAGGCTCACC  
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CGACCTATGTAGAGAATCAGATCTCCGCCATGCGATGGCCAATTGTTTTGAAGCCTTGATAGGAGCTGTT  
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TATAACTTTCCCGAGATGGCCATCAGAAGCGGTTTATTGAGCGGAAATACAGACAAGAGTTAAAGGAAA  
TGAGGTGGGAAAGAGAGCATCAGGAGAGAGACCGGAGGAGGCTGAAGACATCAAGAAAG

ACGCGTACGCGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATGAGTTTAA

Protein Sequence: >MR227001 representing NM\_001130149  
 Red=Cloning site Green=Tags(s)

MQGNTCHRMSYHPGRGCPGRGGHGARPSAPAFRPQNLRLHPQQPPAQYQYEPSPAPSSSYNSQAPSF  
 MPPRPDFVPYPPPAAPSAQGPLPCPVPRPPYPNHQMRHFPVPPCFPPMPPMPCPNPPASGAPPQGT  
 FPFMVPPPMPHPPPPVMPQQVNYQYPPGYSHSFPFPPGFNSYQNNSSSFPPSANSSTPHFRHLPPYSL  
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 NHRSPSREKKRARWEEEEKDRWSDSQSGSKEKNYTSIKEKEAEEVPEKTEEEEEELLKPWIRCTHSESY  
 YSSDPMQVQVDSTVVGTSRLRDLYDKFEELGNRQEKAKAARPPWEPKTKLDEDESSESECETDDDS  
 TCSSSSDSEVFDVIAEIKRKAHPDRLHDELWYNDPGQMNDGPLCKCSAKARRTGIRHSIYPGEEAIKPC  
 RPMTNAGRLFHYRITVSPPTNFLDTRPTVIEYDDHEYIFEGFSMFAHAPLNIPLCKVIRFNIDYTIHF  
 IEEMMPENFCVKGLELFLSLFLFRDILELYDWNKLGPLFEDSPPCCPRFHFMPRFVRFPLDGGKEVLSMHQ  
 ILLYLLRCSKALVPEEIANMLQWEELEWQYAECKGMIVTNPGTKPSSVRIDQLDREQFNPEVITFPI  
 IVHFGIRPAQLSYAGDPQYQKLWKSIVKLRHLLANSPKVKQTDKQKLAQREEALQKIRQKNTMRREVTVE  
 LSSQGFWKTGIRSDVCQHAMMLPVLTHHIRYHQCLMHLDKLIGYTFQDRCLLQLAMTHPSHHLNFGMNP  
 HARNLSNCGIRQPKYGDRKVHMHMRKKGINTLINIMSRLGQDDPTPSRINHNERLEFLGDAVVEFLT  
 VHLYYLFPSLEEGGLATYRTAIVQNQHLAMLAKKLELDRFMLYAHGPDLCRESDLRHAMANCFEALIGAV  
 YLEGSLEEAKQLFGRLLFNDDPDLREVWLNYPHLPLQLQEPNTDRQLIETSPVLQKLTEFEEAIGVIFTHV  
 RLLARAFTLRTVGFNHLTLGHNQRMEFLGDSIMQLVATEYLFIFHPDHHEGHLTLRSSLVNNRTQAKVA  
 EELGMQEYAITNDKTKRPVALRKTLDLLESFIAALYIDKDLEYVHTFMNVCFPRRLKEFLINQDWNPD  
 KSQQLQCCCLTRTEGKEDIPLKTLQTVGSPHARTYTVAVYFKGERIGCGKGPSIQQAEMGAAMDAL  
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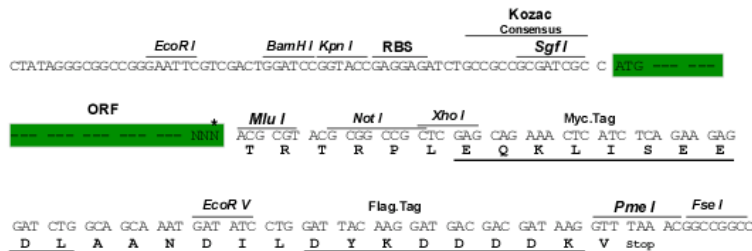
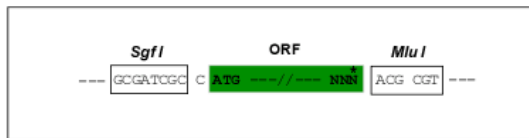
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



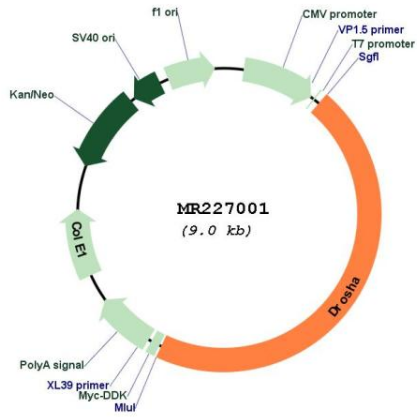
\* The last codon before the Stop codon of the ORF

ACCN: NM\_001130149

ORF Size: 4119 bp

<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001130149.1</a> , <a href="#">NP_001123621.1</a>
<b>RefSeq Size:</b>	4584 bp
<b>RefSeq ORF:</b>	4122 bp
<b>Locus ID:</b>	14000
<b>UniProt ID:</b>	<a href="#">Q5HZJ0</a>
<b>Cytogenetics:</b>	15 A1
<b>MW:</b>	158.8 kDa
<b>Gene Summary:</b>	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 MR227001