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Product datasheet for MC224350

Drosha (NM_026799) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Drosha (NM_026799) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Drosha
Synonyms:	1110013A17Rik; AI874853; Etohi2; Rn3; Rnasen
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
Fully Sequenced ORF:	>MC224350 representing NM_026799 Red=Cloning site Blue=ORF Orange=Stop codon TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCCGCGATCGCC ATGCAAGGCAATACGTGTCATAGAATGTCGTACCACCCAGGACGAGGGTGTCCCCGGGGCCGAGGAGGAC ACGGAGCCAGACCTTCAGCACCAGCTTTCAGACCCCAAAACCTGCGACTTCTTCATCCCCAGCAGCCGCC TGCGCAGTATCAATATGAGCCTCCGAGCGCCCCCTCTTCCTCCTACTCGAACTCTCAGGCCCCCAGCTTT ATGCCCCCACGGCCAGACTTTGTCCCTTACCCTCCCCCAGCGGCGCCGTCTGCCCAAGGGCCTCTCCCTC CCTGCCCAGTGAGGCCGCCTTACCCCAACCACCAGATGAGACACCCTTTCCCGGTGCCTCCCTGTTTTCC ACCCATGCCCCCTCCGATGCCTTGTCCCAATAACCCGCCTGCCTCCGGAGCACCTCCCGGACAAGGCACT TTCCCCTTCATGGTGCCCCCTCCTTCCATGCCCCACCCTCCGCCCCCGCCCGTCATGCCGCAGCAGGTTA ATTACCAGTACCCCCCTGGGTACTCGCACAGCTTCCCACCGCCCGGCTTCAACAGTTACCAGAACAACTC CAGCTCTTTCCCACCCAGTGCTAACAGCAGCAGCACTCCTCATTTTCGACACCTCCCACCATACTCACTC CCAAAGGCTCAGAATGAGAGGCGGTCCCCAGAAAGGCTCAAGCACTACGACGACCACAGGCACCGAGATC ACAGTCACGGGCGAGGCGAGAGGCATCGGTCCCTGGAGCGCAGGGAGCGCGGCCGCAGCCCTGAAAGGAG AAGACCTGAGAGCCGCTACCGCTCAGACTATGATCGGGGGAGAACGCCACCGCCTCGCCACCGCAGCTAT GAAAGGAGCAGAGAGCGGGATCGAGAGAGACACAGGCACCGGGAGGCCCGCAGATCACCGTCTCTAGAAA GGTCCTACAAGAAAGAGTATAAGAGATCTGGAAGGAGTTACGCTTTACCAGTTGCTCCTGAGCCCGCTGG GTGCACACCAGAGTTGCCTGGGGAGATGATTAAAACTACAGAGTCTTGGGCCCCGCCCCCGGAGAATGTG AATCATCGTTCTCCAAGCAGGGAGAAGAAGAGAGCTCGTTGGGAGGAGGAAAAAGACAGATGGAGCGACA GCCAGGGCTCTGGCAAAGAGAAGAACTACACGTCCATCAAAGAGAAAGAGGCAGAGGAGGTGCCTCCAGA GAAGACGGAGGAGGAGGAGGAAGAGCTCCTTAAGCCTGTGTGGATTCGCTGTACACATTCGGAAAGCTAT TACTCCAGTGACCCAATGGATCAGGTGGGAGACTCGACTGTCGTAGGGACAAGCAGGCTCCGTGATTTGT ATGACAAATTTGAGGAAGAATTGGGGAATAGGCAAGAGAAGGCCAAAGCTGCCCGGCCTCCGTGGGAGCC TCCGAAGACAAAGCTGGATGAAGATTTAGAGAGTTCCAGTGAGTCTGAATGTGAGACTGACGACGACAGC ACCTGTTCGAGCAGCTCGGACTCGGAGGTGTTCGATGTCATTGCAGAGATTAAACGCAAAAAGGCTCACC

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CTGACCGGCTTCATGATGAACTCTGGTACAACGACCCAGGCCAGATGAACGATGGACCGCTTTGCAAATG
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TATAACTTTCCCCAGATGGCCCATCAGAAGCGGTTCATTGAGCGGAAATACAGACAAGAGTTAAAGGAAA
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ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_026799

Insert Size: 4122 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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.
RefSeq:	NM_026799.3, NP_081075.3
RefSeq Size:	4580 bp
RefSeq ORF:	4122 bp
Locus ID:	14000
UniProt ID:	Q5HZJ0
Cytogenetics:	15 A1
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] Transcript Variant: This variant (2) differs in the 5' UTR compared to variant 1. Both variants 1 and 2 encode the same protein.