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Product datasheet for MC224355

Drosha (NM_001130149) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Drosha (NM_001130149) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Drosha
Synonyms:	1110013A17Rik; AI874853; Etohi2; Rn3; Rnasen
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

Fully Sequenced ORF:

>MC224355 representing NM_001130149
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

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ACCTGTTCGAGCAGCTCGGACTCGGAGGTGTTCGATGTCATTGCAGAGATTAAACGCAAAAAGGCTCACC
CTGACCGGCTTCATGATGAACTCTGGTACAACGACCCAGGCCAGATGAACGATGGACCGCTTTGCAAATG
CAGTGCAAAAGCCAGACGCACAGGAATCCGCCACAGCATTTATCCCGGAGAAGAGGCAATCAAGCCCTGC
CGTCCGATGACCAACAACGCTGGCCGGCTTTTCCACTATCGGATCACCGTCTCCCCGCCTACCAACTTCT
TAACTGACAGGCCAACAGTCATAGAATATGATGACCACGAGTATATTTTTGAAGGATTTTCTATGTTTGC
ACATGCTCCTCTGACCAATATTCCACTGTGTAAAGTGATTCGATTCAACATAGACTACACGATTCATTTT
ATCGAAGAGATGATGCCTGAGAATTTTTGTGTGAAAGGACTTGAACTGTTTTCATTGTTCCTATTCAGAG
ATATTTTGGAATTATATGACTGGAATCTTAAAGGTCCTTTGTTTGAAGACAGCCCTCCCTGCTGTCCGAG
ATTTCATTTCATGCCACGTTTTGTAAGATTTCTTCCAGATGGAGGCAAAGAAGTGTTATCCATGCACCAG
ATCCTTCTCTACCTGCTGCGCTGCAGCAAGGCTCTGGTGCCCGAGGAGGAGATTGCCAACATGCTCCAGT
GGGAGGAGCTCGAGTGGCAGAAATACGCAGAGGAGTGCAAAGGCATGATCGTTACCAACCCTGGGACGAA
ACCGAGCTCTGTCCGCATTGATCAGCTGGATCGTGAACAGTTCAACCCCGAAGTGATCACTTTCCCGATT
ATCGTTCACTTTGGGATCCGCCCCGCACAGTTGAGTTATGCAGGAGACCCACAGTATCAGAAATTATGGA
AAAGCTATGTGAAACTTCGCCACCTCCTAGCAAACAGTCCCAAAGTCAAACAAACTGACAAGCAGAAGCT
GGCTCAGAGGGAGGAAGCGCTCCAGAAAATACGGCAGAAGAACACGATGCGGCGAGAAGTCACCGTGGAG
CTGAGTAGCCAAGGATTCTGGAAAACTGGCATTCGTTCTGATGTCTGTCAGCATGCAATGATGCTGCCTG
TTCTGACCCATCACATCCGGTACCATCAATGCTTAATGCACCTGGACAAGTTGATAGGATATACTTTCCA
AGACCGTTGTCTGCTCCAGCTTGCCATGACTCATCCGAGTCACCATTTAAATTTTGGAATGAATCCTGAC
CATGCCAGGAATTCTTTGTCTAACTGTGGAATTCGACAACCCAAATATGGAGACAGAAAAGTTCATCACA
TGCACATGCGGAAAAAAGGAATTAATACCCTAATAAATATCATGTCACGCCTTGGCCAAGATGATCCAAC
TCCTTCAAGGATTAATCACAACGAAAGGTTGGAGTTCCTGGGGGATGCTGTTGTTGAGTTTCTGACCAGT
GTCCACCTGTACTACCTGTTTCCTAGCTTGGAGGAAGGGGGCTTGGCGACCTATCGGACCGCCATTGTTC
AGAATCAGCACCTCGCCATGCTTGCAAAGAAACTTGAACTGGATCGATTTATGCTATATGCCCATGGGCC
CGACCTATGTAGAGAATCAGATCTCCGCCATGCGATGGCCAATTGTTTTGAAGCCTTGATAGGAGCTGTT
TACTTGGAGGGGAGCCTAGAGGAAGCCAAACAGTTATTTGGACGCTTACTCTTTAATGATCCGGACCTTC
GAGAAGTCTGGCTCAATTATCCTCTCCACCCACTCCAACTACAAGAGCCAAATACGGATCGGCAACTTAT
TGAAACTTCCCCAGTTCTACAGAAACTTACGGAGTTTGAAGAAGCAATTGGAGTGATCTTCACTCACGTC
CGGCTTCTGGCGAGGGCGTTCACACTGAGAACCGTGGGCTTTAACCACCTGACCCTAGGCCACAATCAGA
GGATGGAATTTCTGGGCGACTCCATAATGCAGCTGGTGGCCACAGAGTACTTGTTCATTCATTTCCCGGA
CCATCACGAAGGACACTTGACGTTGTTACGAAGTTCCTTAGTGAACAACAGAACGCAAGCCAAGGTAGCA
GAGGAACTGGGCATGCAGGAGTATGCCATCACCAACGACAAAACCAAGAGACCCGTGGCCCTAAGAACCA
AGACTTTGGCAGACCTTTTGGAATCATTTATCGCAGCGCTGTACATCGACAAGGACCTGGAATATGTCCA
CACTTTCATGAACGTCTGCTTCTTTCCCCGGCTGAAGGAGTTCATTCTGAATCAGGATTGGAACGACCCC
AAGTCGCAGCTGCAGCAGTGTTGTCTGACCCTGAGGACAGAAGGGAAAGAGCCTGACATCCCCTTATACA
AGACTCTGCAGACAGTGGGGCCATCCCATGCTAGAACCTACACTGTGGCTGTTTATTTCAAGGGAGAAAG
GATAGGCTGTGGGAAAGGACCAAGCATTCAGCAGGCGGAGATGGGAGCAGCAATGGATGCACTGGAGAAA
TATAACTTTCCCCAGATGGCCCATCAGAAGCGGTTCATTGAGCGGAAATACAGACAAGAGTTAAAGGAAA
TGAGGTGGGAAAGAGAGCATCAGGAGAGAGAGCCGGAGGAGGCTGAAGACATCAAGAAGTAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_001130149

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_001130149.1, NP_001123621.1
RefSeq Size:	4584 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 (1) represents the longer transcript. Both variants 1 and 2 encode the same protein.