

## Product datasheet for **SC308939**

### DROSHA (NM\_013235) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	DROSHA (NM_013235) Human Untagged Clone
Tag:	Tag Free
Symbol:	DROSHA
Synonyms:	ETOHI2; HSA242976; RANSE3L; RN3; RNASE3L; RNASEN
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC308939 representing NM_013235. Blue=Insert sequence Red=Cloning site Green=Tag(s)

GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG  
GATCCGGTACCGAGGAGATCTGCCGCC**GCGATCGCC**  
ATGATGCAGGGAAACACATGTCACAGAATGTCGTTCCACCCGGGACGAGGGTGTCCCCGAGGACGAGGA  
GGACATGGAGCCAGACCCTCAGCACCATCCTTTAGGCCCAAAATCTGAGGCTGCTTCACCTCAGCAG  
CCTCCTGTGCAATATCAATATGAACCTCCAAGTGCCCTTCCACCACTTCTCAAACCTCCAGCCCC  
AATTTTCTCCCTCCAGCACCAGACTTTGTACCCTTCCCCCACCATGCCTCCGTGAGCGCAAGGCCCT  
CTTCCCCCTGCCAATCAGGCCGCTTCCCCAACCCAGATGAGGCACCCCTTCCAGTTCTCTCT  
TGTTTTCTCCATGCCACCACCAATGCCTTGCTTAATAACCCCCAGTCCCTGGGGCACCTCCTGGA  
CAAGGCATTTCCCTTCATGATGCCCCCTCCCTCCATGCCTCATCCCCGCCCCCTCCAGTCATGCCG  
CAGCAGGTTAATTATCAGTACCCTCCGGCTATTCTCACCACAACCTCCACCTCCAGTTTAAATAGT  
TTCCAGAAACAACCTAGTTCTTTCTGCCAGTGCTAATAACAGCAGTAGTCCTCATTTTCAGACATCTC  
CCTCCATACCCACTCCCAAAGGCTCCAGTGAGAGAAGGTCCCCAGAAAGGCTGAAACACATATGATGAC  
CACAGGCACCGAGATCACAGTCATGGGCGAGGTGAGAGGCATCGGTCCCTGGATCGGCGGGAGCGAGGC  
CGCAGTCCCGACAGGAGAAGACAAGACAGCCGGTACAGATCTGATTATGACCGAGGGAGAACCACATCT  
CGCCACCCGAGCTACGAACGGAGCAGAGAGCGAGAACGGGAGAGACACAGGCATCGAGACAACCGAAGA  
TCACCATCTCTGAAAGGTCCTACAAAAAGAGTATAAGAGATCTGGAAGGAGTTACGGTTTATCGGTT  
GTTCTGAACCTGCTGGATGCACACCAGAATTACCTGGGAGATTATAAAAATACAGATTCTTGGGCC  
CCACCCCTGGAGATTGTGAATCATCGCTCCCAAGTAGGGAGAAGAAGAGAGCTCGTTGGGAGGAAGAA  
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CCCGAGGAGACCATGCCTGACAAGAATGAGGAGGAAGAAGAAGAACTTCTTAAGCCTGTGTGGATTGGA  
TGCACTCATTGAAAACTACTACTCCAGTGACCCCATGGATCAGGTGGGAGATTCTACAGTGGTTGGA  
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GCTGCTCGGCCTCCGTGGAAACCTCAAAGACGAAGCTCGATGAAGATTTAGAGAGTTCCAGTGAATCC  
GAGTGTGAGTCTGATGAGGACAGCACCTGTTCTAGCAGCTCAGACTCTGAAGTTTTGACGTTATTGCA



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GAAATCAAACGCAAAAAGGCCACCCTGACCGACTTCATGATGAACTTTGGTACAACGATCCAGGCCAG  
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 CTTGACACTTTTCACTGTTCTATTCCAGAGATATTTTGAATTATATGACTGGAATCTTAAAGGTCCT  
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 TGCAAAGGCATGATTGTTACCAACCCTGGGACGAAACCAAGCTCTGTCCGATCGATCAACTGGATCGT  
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 TGCCATAATGCATTTGGACAAGTTGATAGGATATACTTTCCAAGATCGTTGTCTGTGTCAGCTGGCCATG  
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 GGAATTCGGCAGCCCAAATACGGAGACAGAAAAGTTTCAACATGCACATGCCGAAAGAAAGGGATTAAC  
 ACCTTGATAAATATCATGTACAGCCTTGGCCAAGATGACCAACTCCCTCGAGGATTAACCAATGAA  
 CGGTTGGAATTCCTGGGTGATGCTGTTGTTGAATTTCTGACCAGCGTCCATTTGACTATTTGTTTCT  
 AGTCTGGAAGAAGGAGGATTAGCAACCTATCGGACTGCCATTGTTGAGAATCAGCACCTTGCCATGCTA  
 GCAAAGAAACTGAACTGGATCGATTTATGCTGTATGCTCAGGGCCTGACCTTTGTAGAGAATCGGAC  
 CTTGACATGCAATGGCCAATTTGTTTGAAGCGTTAATAGGAGCTGTTTACTTGGAGGGAAGCCTGGAG  
 GAAGCCAAGCAGTTATTTGGACGCTTGTCTTTAATGATCCGGACCTGCCGGAAGTCTGGCTCAATTAT  
 CCTCTCCACCACTCCAACCTACAAGAGCCAAATACTGATCGACAACCTATTGAAACTTCTCCAGTTCTA  
 CAAAACTTACTGAGTTTGAAGAAGCAATTGGAGTAATTTTACTCATGTTGACTTCTGGCAAGGGCA  
 TTCACATTGAGAAGTGTGGGATTAACCATCTGACCCTAGGCCACAATCAGAGAATGGAATTCCTAGGT  
 GACTCCATAATGCAACTGGTAGCCACAGAGTACTTATTCATTCATTTCCAGATCATCATGAAGGACAC  
 TTAACCTTTGTTGCGAAGCTCTTTGGTGAATAATAGAAGTACAGCCAAGGTAGCGGAGGAGCTGGGCATG  
 CAGGAGTACGCCATAACCAACGACAAGACCAAGAGGCCTGTGGCGCTTCGCACCAAGACCTTGGCGGAC  
 CTTTTGGAATCATTTATGACGCGCTGTACATTGATAAGGATTTGGAATATGTTCACTTTTCATGAAT  
 GTCTGCTCTTTCCACGATTGAAAGAGTTCATTTTGAATCAGGATTGGAATGACCCCAAATCCCAGCTT  
 CAGCAGTGTGCTTGACACTTAGGACAGAAGGAAAAGAGCCAGACATTCCTCTGTACAAGACTCTGCAG  
 ACAGTGGGCCATCCCATGCCGAACTACACTGTGGCTGTTATTTCAAGGGAGAAAGAATAGGCTGT  
 GGGAAAGGACCAAGTATTCAGCAAGCGGAAATGGGAGCAGCAATGGATGCGCTTGAAAAATATAATTTT  
 CCCCAGATGGCCATCAGAAGCGGTTTCATCGAACGGAAGTACAGACAAGAGTTAAAAGAAATGAGGTGG  
 GAAAGAGAGCATCAAGAGAGAGAGCCAGATGAGACTGAAGACATCAAGAAATAA  
 ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT  
 TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC

**Restriction Sites:**

SgfI-MluI

**ACCN:**

NM\_013235

**Insert Size:**

4125 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).

<b>OTI Annotation:</b>	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
<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>	<u><a href="#">NM_013235.4</a></u>
<b>RefSeq Size:</b>	5424 bp
<b>RefSeq ORF:</b>	4125 bp
<b>Locus ID:</b>	29102
<b>UniProt ID:</b>	<u><a href="#">Q9NRR4</a></u>
<b>Cytogenetics:</b>	5p13.3
<b>Domains:</b>	RIBOc, DSRM
<b>MW:</b>	159.3 kDa
<b>Gene Summary:</b>	<p>This gene encodes a ribonuclease (RNase) III double-stranded RNA-specific ribonuclease and subunit of the microprocessor protein complex, which catalyzes the initial processing step of microRNA (miRNA) synthesis. The encoded protein cleaves the stem loop structure from the primary microRNA (pri-miRNA) in the nucleus, yielding the precursor miRNA (pre-miRNA), which is then exported to the cytoplasm for further processing. In a human cell line lacking a functional copy of this gene, canonical miRNA synthesis is reduced. Somatic mutations in this gene have been observed in human patients with kidney cancer. [provided by RefSeq, Sep 2016]</p> <p>Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.</p>