

Product datasheet for **SC316870**

DROSHA (NM_001100412) Human Untagged Clone

Product data:

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| Product Type: | Expression Plasmids |
| Product Name: | DROSHA (NM_001100412) Human Untagged Clone |
| Tag: | Tag Free |
| Symbol: | DROSHA |
| Synonyms: | ETOHI2; HSA242976; RANSE3L; RN3; RNASE3L; RNASEN |
| Vector: | <u>pCMV6 series</u> |
| Fully Sequenced ORF: | >NCBI ORF sequence for NM_001100412, the custom clone sequence may differ by one or more nucleotides |

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ATGATGCAGGGAAACACATGTCACAGAATGTCGTTCCACCCGGGACGAGGGTGTCCCGA
GGACGAGGAGGACATGGAGCCAGACCCTCAGCACCATCCTTTAGGCCCAAAATCTGAGG
CTGCTTACCCTCAGCAGCCTCCTGTGCAATATCAATATGAACCTCCAAGTGCCCTTCC
ACCACTTCTCAAACCTCCAGCCCCAATTTTCTCCCTCCACGACCAGACTTTGTACCC
TTCCCCCACCATGCCTCCGTAGCGCAAGGCCCTTCCCCCTGCCAATCAGGCCG
CCTTTCCCAACCACCAGATGAGGCACCCTTCCCAGTTCCTCCTGTTTTCTCCCATG
CCACCACCAATGCCTTGCTAATAACCCCCCAGTCCCTGGGGCACCTCCTGGACAAGGC
ACTTTCCCTTTCATGATGCCCTCCCTCCATGCCTCATCCCCGCCCTCCAGTCATG
CCGCAGCAGGTTAATTATCAGTACCCTCCGGGCTATTCTCACCACAACTCCCACCTCCC
AGTTTTAATAGTTTCCAGAAACCCCTAGTTTCTTCTGCCCAGTGCTAATAACAGCAGT
AGTCTCATTTTACAGACATCTCCCTCCATACCCACTCCCAAAGGCTCCCAGTGAGAGAAGG
TCCCCAGAAAGGCTGAAACACTATGATGACCACAGGCACCGAGATCACAGTCATGGGCGA
GGTGAGAGGCATCGTCCCTGGATCGGCGGGAGCGAGGCCGAGTCCCGACAGGAGAAGA
CAAGACAGCCGGTACAGATCTGATTATGACCGAGGGAGAACCACCTCTCGCCACCGCAGC
TACGAACGGAGCAGAGAGCGAGAACGGGAGAGACACAGGCATCGAGACAACCGAAGATCA
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AGGGAGAAGAAGAGAGCTCGTTGGGAGGAAGAAAAAGACCGTTGGAGTGACAACCAGAGT
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GACAAGAATGAGGAGGAAGAAGAAGAACTTCTTAAGCCTGTGTGGATTGATGCACTCAT
TCAGAAAATACTACTCCAGTGACCCCATGGATCAGGTGGGAGATTCTACAGTGGTTGGA
ACGAGTAGGCTTCGTGACTTATATGACAAATTTGAGGAGGAGTTGGGAGCAGGCAAGAA
AAGGCCAAAGCTGCTCGGCTCCGTGGGAACCTCAAAGACGAAGCTCGATGAAGATTTA
GAGAGTCCAGTGAATCCGAGTGTGAGTCTGATGAGGACAGCACCTGTTCTAGCAGTCA
GACTCTGAAGTTTTTGTGATTATGACAGAAATCAAACGCAAAAAGGCCACCCTGACCGA
CTTCATGATGAACTTTGGTACAACGATCCAGGCCAGATGAATGATGGACCACTCTGCAAA
TGCAGCGCAAAGGCAAGACGCACAGGAATTAGGCACAGCATTATCCTGGAGAAGAGGCC
ATCAAGCCCTGTGCTCCTATGACCAACAATGCTGGCAGACTTTTCCACTACCGGATCACA
GTCTCCCCGCCTACGAACTTTTAACTGACAGGCCAACTGTTATAGAATACGATGATCAC
GAGTATATCTTTGAAGGATTTTCTATGTTTGCACATGCCCCCTGACCAATATTTCCACTG

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TGTAAAGTAATTAGATTCAACATAGACTACACGATTCATTTTCATTGAAGAGATGATGCCG
 GAGAATTTTTGTGTGAAAGGGCTTGAACCTTTTTCACTGTTCTTTCAGAGATATTTTG
 GAATTATATGACTGGAATCTTAAAGGTCCTTTGTTTGAAGACAGCCCTCCCTGCTGCCCA
 AGATTTTCATTTGATGCCACGTTTTGTAAGATTTCTCCAGATGGAGGAAAGGAAGTGCTG
 TCCATGCACCAGATTCTCCTGTACTTGTAAAGTGCAGCAAAGCCCTGGTGCCTGAGGAG
 GAGATTGCCAATATGCTTCAGTGGGAGGAGCTGGAGTGGCAGAAATATGCAGAAGAATGC
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 GATCGTGAACAGTTCAACCCCGATGTGATTACTTTTCCGATTATCGTCCACTTTGGGATA
 CGCCCTGCACAGTTGAGTTATGCAGGAGACCCACAGTACCAAAAACTGTGGAAGATTAT
 GTGAAACTTCGCCACCTCTAGCAAATAGTCCCAAAGTCAAACAACTGACAAACAGAAG
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 CATTTGGACAAGTTGATAGGATATACTTTCCAAGATCGTTGTCTGTTGCAGCTGGCCATG
 ACTCATCCAAGTCATCATTTAAATTTTGAATGAATCCTGATCATGCCAGGAATTCATTA
 TCTAACTGTGGAATTCGGCAGCCAAATACGGAGACAGAAAAGTTCATCATATGCACATG
 CGGAAGAAAGGGATTAACACCTTGATAAAATATCATGTACGCCTTGCCCAAGATGACCCA
 ACTCCCTCGAGGATTAACCACAATGAACGGTTGGAATTCCTGGGTGATGCTGTTGTTGAA
 TTTCTGACCAGCGTCCATTTGACTATTTGTTTCTAGTCTGGAAGAAGGAGGATTAGCA
 ACCTATCGGACTGCCATTTGTTGAGAATCAGCACCTTGCCATGCTAGCAAAGAACTTGAA
 CTGGATCGATTTATGCTGTATGCTCACGGGCTGACCTTTGTAGAGAATCGGACCTTCGA
 CATGCAATGGCCAATGTTTTGAAGCGTTAATAGGAGCTGTTACTTGGAGGGAAGCCTG
 GAGGAAGCCAAGCAGTTATTTGGACGCTTGCTCTTTAATGATCCGGACCTGCGCGAAGTC
 TGGCTCAATTATCCTCTCCACCCACTCCAACACTACAAGAGCCAAATACTGATCGACAATT
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 TTTACTCATGTTGACTTCTGGCAAGGGCATTACATTGAGAACTGTGGGATTTAACCAT
 CTGACCCTAGGCCACAATCAGAGAATGGAATTCCTAGGTGACTCCATAATGCAACTGGTA
 GCCACAGAGTACTTATTCATTTCTTTCCAGATCATCATGAAGGACACTTAACCTTTGTTG
 CGAAGCTCTTTGGTGAATAATAGAACTCAGGCCAAGGTAGCGGAGGAGCTGGCATGCAG
 GAGTACGCCATAACCAACGACAAGACCAAGAGGCTGTGGCGCTTCGCACCAAGACCTTG
 GCGGACCTTTTGAATCATTTATTGACGCTGTACATTGATAAGGATTTGGAATATGTT
 CATACTTTTCATGAATGTCTGCTTCTTTCCACGATTGAAAGAGTTCAATTTGAATCAGGAT
 TGGAAATGACCCCAATCCAGCTTCAGCAGTGTGCTTGACACTTAGGACAGAAGGAAAA
 GAGCCAGACATTCCTCTGTACAAGACTCTGCAGACAGTGGGCCCATCCATGCCCGAACCC
 TACTGTGGCTGTTATTTCAAGGGAGAAAGAATAGGCTGTGGGAAAGGACCAAGTATT
 CAGCAAGCGGAAATGGGAGCAGCAATGGATGCGCTTGAAAAATATAATTTTCCAGATG
 GCCCATCAGAAGCGGTTTCATCGAACGGAAGTACAGACAAGAGTTAAAAGAAATGAGGTGG
 GAAAGAGAGCATCAAGAGAGAGAGCCAGATGAGACTGAAGACATCAAGAAA

Restriction Sites:

Please inquire

ACCN:

NM_001100412

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).

OTI Annotation:

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.

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| 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: | <u>NM_001100412.1, NP_001093882.1</u> |
| RefSeq Size: | 5389 bp |
| RefSeq ORF: | 4014 bp |
| Locus ID: | 29102 |
| UniProt ID: | <u>Q9NRR4</u> |
| Cytogenetics: | 5p13.3 |
| Gene Summary: | <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 (2) differs in the 5' UTR and lacks an alternate in-frame exon in the 5' coding region, compared to variant 1. The resulting protein (isoform 2) is shorter than 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> |