

Product datasheet for **SC112466**

DGCR8 (NM_022720) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DGCR8 (NM_022720) Human Untagged Clone
Tag:	Tag Free
Symbol:	DGCR8
Synonyms:	C22orf12; DGCRK6; Gy1; pasha
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF within SC112466 sequence for NM_022720 edited (data generated by NextGen Sequencing)

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ATGGAGACAGATGAGAGCCCCTCTCCGCTCCCGTGTGGGCCCGCAGGAGAAGCGGTGATG
GAGAGCCGAGCTCGCCCCTTCCAAGCGCTGCCCGTGAGCAGTCTCCACCACCTCCCCTG
CAAACGTCCAGTGGTGCAGAGGTAATGGACGTTGGCTCTGGTGGTATGGACAGTCCGAA
CTCCCTGCTGAGGACCCCTCACTTCTACGGAGCTTCTTCTCTCAAAGGATCCTTC
TCTAAGGGCCGCTCCTCATAGACCCGAAGTGTAGTGGCCACAGCCCGCACCAGCCCGG
CAGCACCTGCGGTCCGGAAGTTCTCCCTGACCTTAAGTTGCTTAAGGATGTAAGGATT
AGCGTGAGCTTTACCGAGAGCTGCAGGAGTAAGGACAGGAAGGTGCTGTACACAGGAGCA
GAGCGCGAGCTGCGGGCGGAGTGCAGTCTGCTCCTTAGCCCTGTCAAGTGGGACGTGCAT
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Clone variation with respect to NM_022720.6

5' Read Nucleotide Sequence: >OriGene 5' read for NM_022720 unedited
 GGGTCANAATTGTAACGACTCACTATAGGCGGCCGCAATTCGCACGAGGCGGCTGTGG
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 CTCCGGCATGAAGACAGACTCGCTTAGTCGCCAGTCACTTAAGCTGAGTGCATTGTGATT
 TCCAATAATTGAGGCAGTGGTTCTAAAAGCTGTCTACATTAATGAAAAGAGCAATGTGGC
 CAGCTTGACTAAGCCGCCAGCGCACAGCGCGCAGGACGCGCCCGGTATCAGCGGAAAT
 GTGCATGTTAGCTGTGTAGATTTATGTGAGGGCTTGTA AAAACTCTGGTCTTGTA AACTAG
 TCTTAAGCGCTTTTAATATGGAGACAGATGAGAGCCCTCTCCGCTCCCGTGTGGGCCCG
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 GTGATGGACAGTCCGAACCTCCCTTGCTGAGGACCCCTTCAACTTCTACGGAGCTTCTCT
 CTCTCAAAGGATCCTTCTAAGGGCCGCTCCTCATAGACCCGAACTGTAGTGGCCAC
 AGCCCGCCACCCCGGCACGCACCTGCGGTCCGGAAGTTCTCCCTGACCTTAAGTTG
 CTTAAGGATGTAAGATTAGCGTAGCTTTACCGAGAGCTGCANGAGTAAGGACAGGAAG
 GTGCTGTACACAGGAGCANAGCGCGACNTGCGGGCGGAGTGCGGTCTGCTCCTTACCCTG
 TCAGTGGGACGTGCATGCTTGTCCCTTTCGCGNNANNTGTGTGACNNGTANGCATAGG
 GGGTGAGAGTGCTGATANAAAGATGNNAGAAATGAGCTGGAN

3' Read Nucleotide Sequence: >OriGene 3' read for NM_022720 unedited
 AGTTTGCTTGTGTGTTTAGGACATCAAGGCTCGCCTTCCAGCACAGCCCAGTGCCTGG
 CTGGCATCAGCACAGGCTCCCCTGCCCGGCTTGAAGCATGGCTGTGTGCACGATTCAT
 ACCCATGCTTGGCAGACGGTGGGGGGGGGGGGGCCACAAAAACCACAAAAGTATGGC
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 GGAACACATGTCCACAAAGCTTTGTTTACAGGCGCATCTGGCTGGTTAAGGGCAACAG
 TCACAGTCAAATGACTTTTACAGCTGCAAACAGGAGGCAAAAACAAAAGCAAGTGTTTAA
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 CACAGGTAGTGAGGGAAGGATATGTTGTGGCCGGCCACAGGCCAACATTGTTTTCTGA
 CAAAAAAAAAAAAAAAAAGCGCCATCATTCCCGCCTGTAGGGGGCATGGTGGGGACAA
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 ACAGGTGCCATTCCACCACGAGGCCAGCCTTTGAGCACACCCTGGTGCCTAAGACTCCG
 GCAGGAACACATTTCCATCGCACACCCACCCTTAGGGGCCACCAGTCCAAGAAACAAGCT
 GGCCACCAGGCAGTTGCCTTGAATCCAGAAAAACCGGTGTACAGGCAACAGTTTTGGA
 TAAGAAATGGCCTACATTGAAGGCTTTTGTCTCTGTTTACAAGCCCTCTGGCTTAAAGG
 CTGATTCCAAATTACCTCCTATTTTATTGGGAAGTCTTCAAAGGCTAAAATCACAAAAC
 TTAATAATCAATGGGGACATATGACCCCCGAAAAAATCTTGNAAAAACCTGCCCGAGG
 CAAAAAGCAAAGGCCTCAGGTCAAAGGC

Restriction Sites: NotI-NotI

ACCN: NM_022720

Insert Size: 4350 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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. [More info](#)

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_022720.5](#), [NP_073557.3](#)

RefSeq Size: 4461 bp

RefSeq ORF: 2322 bp

Locus ID: 54487

UniProt ID: [Q8WYQ5](#)

Cytogenetics: 22q11.21

Gene Summary: This gene encodes a subunit of the microprocessor complex which mediates the biogenesis of microRNAs from the primary microRNA transcript. The encoded protein is a double-stranded RNA binding protein that functions as the non-catalytic subunit of the microprocessor complex. This protein is required for binding the double-stranded RNA substrate and facilitates cleavage of the RNA by the ribonuclease III protein, Drosha. Alternate splicing results in multiple transcript variants. [provided by RefSeq, Jun 2010]
 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.