

Product datasheet for **RG219451**

DGCR8 (NM_022720) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DGCR8 (NM_022720) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	DGCR8
Synonyms:	C22orf12; DGCRK6; Gy1; pasha
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG219451 representing NM_022720
 Red=Cloning site Blue=ORF Green=Tags(s)

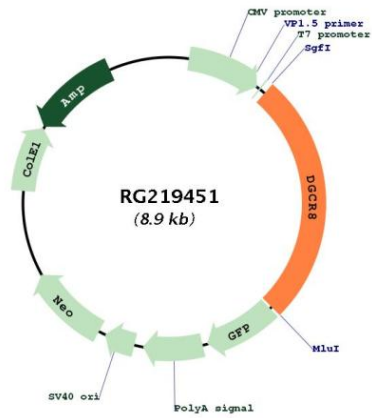
TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGAGACAGATGAGAGCCCTCTCCGCTCCCGTGTGGGCCCGCAGGAGAAGCGGTGATGGAGAGCCGAG
 CTGCCCCCTTCCAAGCGCTGCCCGTGAGCAGTCTCCACCACCTCCCCTGCAAACGTCCAGTGGTGAGAG
 GGTAATGGACGTTGGCTCTGGTGGTGGTGGACAGTCCGAACTCCCTGCTGAGGACCCCTCAACTCTAC
 GGAGCTTCTCTTCTCTCCAAAGGATCCTTCTCTAAGGGCCGCTCCTCATAGACCCGAACTGTAGTGGCC
 ACAGCCCAGCACCAGCCCGGCACGCACCTGCGGTCCGGAAGTTCTCCCCTGACCTTAAGTTGCTTAAGGA
 TGTAAAGATTAGCGTGGCTTTACCGAGAGCTGCAGGAGTAAGGACAGGAAGGTGCTGTACACAGGAGCA
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 CCGACGGGTGGATCATGACATCCATAACTCTGGAGTCCCGGTGTACCTACACAGAGAGTCTCGGGTGGT
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 CCCAAGTGAGCCTTTTGGTGCCTCGGTGACCATTGATGGTGTGACTTACGGATCTGGAAGTCAAGCAGC
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 GGTCTACGAGCTGACCAGCAAGGCTGGGCTGTTGTCTCCATATCAGATCTCCACGAGTGCCTTAAAGA
 AACCATGGGATGGGTGACACGTCTATCAAGTTTGAAGTGGTTCTGGGAAAAACCAGAAGAGTGAATACG
 TCATGGCGTGTGGCAAGCACACAGTGGCGGGTGGTGAAGAACAAGAGAGTTGGAAGCAGTTAGCCCTC
 ACAGAAGATCCTTCAGCTGCTGCACCCACATGTCAAGAACTGGGGTCTTTACTGCGCATGTATGGCCGT
 GAGAGCAGCAAGATGGTCAAGCAGGAGACATCGGACAAGAGTGTGATTGAGCTGCAGCAGTATGCCAAGA
 AGAACAAGCCCAACCTGCACATCCTCAGCAAGTCCAAGAGGAGATGAAGAGGCTAGCTGAGGAAAGGGA
 GGAGACTCGAAAGAAGCCCAAGATGTCCATTGTGGCGTCCGCCAGCCTGGCGGTGAGCCCTGTGCACC
 GTGGACGTG

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

OTI Disclaimer:	<p>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.</p> <p>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</p>
OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
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:	NM_022720.7
RefSeq Size:	4461 bp
RefSeq ORF:	2322 bp
Locus ID:	54487
UniProt ID:	Q8WYQ5
Cytogenetics:	22q11.21
Gene Summary:	<p>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]</p>

Product images:



Circular map for RG219451