

Product datasheet for **RG230872**

DGCR8 (NM_001190326) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DGCR8 (NM_001190326) 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)



[View online »](#)

ORF Nucleotide Sequence:

>RG230872 representing NM_001190326
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGAGACAGATGAGAGCCCTCTCCGCTCCCGTGTGGGCCCGCAGGAGAAGCGGTGATGGAGAGCCGAG
 CTGCCCCCTTCCAAGCGCTGCCCGTGAGCAGTCTCCACCACCTCCCCTGCAAACGTCCAGTGGTGACAG
 GGTAATGGACGTTGGCTCTGGTGGTGATGGACAGTCCGAACTCCCTGCTGAGGACCCCTCAACTCTAC
 GGAGCTTCTCTTCTCCAAAGGATCCTTCTCTAAGGGCCGCTCCTCATAGACCCGAACTGTAGTGGCC
 ACAGCCCCGCGACCGCCCGGCACGCACCTGCGGTCCGGAAGTTCTCCCCTGACCTTAAGTTGCTTAAGGA
 TGTAAAGATTAGCGTGAGCTTTACCGAGAGCTGCAGGAGTAAGGACAGGAAGGTGCTGTACACAGGAGCA
 GAGCGCGACGTGCGGGCGGAGTGCAGTCTGCTCCTTAGCCCTGTCAGTGGGACGTGCATGCTTGTCCCT
 TTGGCGGGAGTGTGGTGACGGGTAGGCATAGGGGTGAGAGTCTGATAAGAAGGATGAGGAGAATGA
 GCTGGATCAGGAAAAGAGAGTGGAGTATGCAGTCTCGATGAGTTAGAAGATTTTACTGACAATTTGGAG
 CTAGATGAAGAAGGAGCAGGCGGGTTCACGGCTAAAGCAATCGTTCAGAGAGACAGAGTGGATGAAGAGG
 CCTTGAATTTCCCTACGAGGATGACTTTGACAACGATGTGGATGCTCTGCTGGAAGAAGCCCTTTGTGC
 CCCCCAAAAGAGGCGAACAGAGGAAAAATATGGCGGAGACAGCGACCATCCGTCCGATGGAGAGACAAGT
 GTGCAGCCGATGATGACCAAGATTAACAACAGTCTCAAAAGTCTGGCCGCCACCTACAGAGCCGCTGC
 CCGACGGGTGGATCATGACATCCATAACTCTGGAGTCCCGGTGTACCTACACAGAGAGTCTCGGGTGGT
 CACCTGGTCCAGGCCATACTTCTTGGGAACGGGAAGCATACGGAACACGACCCTCCTCTGAGTAGCATC
 CCTTGTCTGCATTATAAGAAAAAAGGACAACGAGGAACGGGAGCAAAGCAGTGACCTCACCCCTAGTG
 GGGATGTGTCCCCGTCAAGCCCTGAGCCGATCTGCAGAGCTGGAGTTTCCCCTGGATGAGCCTGACTC
 TATGGGTGCTGACCCGGGCCCCCGGACGAGAAAGACCCACTAGGGGCTGAGGCAGCCCTGGGGCCCTG
 GGCAGGTGAAGGCCAAAGTCGAGGTGTGCAAAGATGAATCCGTTGATCTCGAGGAATTTGAAAGCTACC
 TGGAGAAGCGTTTTGACTTTGAGCAAGTACTGTAAAAAATTCAGGACTTGGGCTGAGCGGCGGCAATT
 CAATCGGGAAAATGAAGCGGAAGCAGGCGGAGTCCGAGAGGCCATCTTGCCAGCCAATCAGAAGCTCATT
 ACTTTATCAGTGAAGATGCACCCACAAAGAAAGAGTTTGTATTAACCCCAACGGGAAATCCGAGGTCT
 GCATCCTGCACGAGTACATGCAGCGTGCCTCAAGGTCCGCCCTGTCTATAATTTCTTTGAATGTGCCCG
 AGCTACACTGGAAATCCTCATCCCTGACTTTGTTAAACAGACCTCTGAAGAGAAGCCAAAGACAGTGAA
 GAACTCGAGTATTTTAACACATCAGCATCGAGGACTCGCGGTCTACGAGCTGACCAGCAAGGCTGGGC
 TGTGTCTCCATATCAGATCCTCCACGAGTGCCTAAAAGAAACCATGGGATGGGTGACACGTCTATCAA
 GTTTGAAGTGGTTCTGGGAAAAACCAGAAGAGTGAATACGTCATGGCGTGTGGCAAGCACACAGTGCGC
 GGGTGGTGAAGAACAAGAGAGTTGAAAGCAGTTAGCCTCACAGAAGATCCTTCAGCTGCTGCACCCAC
 ATGTCAAGAACTGGGGTCTTTACTGCGCATGTATGGCCGTGAGAGCAGCAAGATGGTCAAGCAGGAGAC
 ATCGGACAAGAGTGTGATTGAGCTGCAGCAGTATGCCAAGAAGAACAAGCCCAACCTGCACATCCTCAGC
 AAGCTCCAAGAGGAGATGAAGAGGCTAGCTGAGGAAAGGGAGGAGACTCGAAAGAAGCCCAAGATGTCCA
 TTGTGGCGTCCGCCAGCCTGGCGGTGAGCCCTGTGCACCGTGGACGTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG230872 representing NM_001190326
 Red=Cloning site Green=Tags(s)

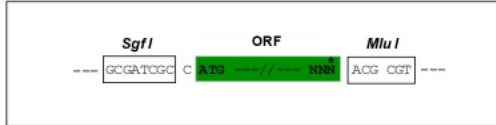
METDESPSPLPCGPAGEAVMESRARPFQALPREQSPPPPLQTSSGAEVMDVGSGGDQSELPAEDPFNFY
 GASLLSKGSFSKGRLLIDPNCSGHSPRTARHAPAVRKFSPLKLLKDVKISVSFTECSRKDRKVLVTGA
 ERDVRAEGLLLSPVSGDVHACPFGGVGDGVGIGGESADKKDEENELDQEKRVYAVLDELEDFTDNLE
 LDEEGAGGFTAKAIVQRDRVDEEALNFPYEDDFDNDVDALLEEGLCAPKKRRTEEKYGGSDHPSDGETS
 VQPMMTKIKTVLKSRRPPTTEPLPDGWIMTFHNSGVPVYLHRESRVVTSRPFYFLGTGSIRKHDPPSSSI
 PCLHYKKMKDNEEREQSSDLTPSGDVSPVKPLSRSAELEFPLDEPDSMGADPGPPDEKDPDPLGAEAAPGAL
 GQVKAKVEVCKDESVDLEEFRSYLEKRFDFEQVTYKFRWAERRQFNREMKRQAESERPILPANQKLI
 TLSVQDAPTKKEFVINPNGKSEVCILHEYMQRVLKVRPVYNFFECARATLEILIPDFVKQTSEEKPKDSE
 ELEFYFNHISIEDSRVYELTSKAGLLSPYQILHECLKRNHGMGDTSIKFEVVPGKNQKSEYVMACGKHTVR
 GWCKNKRVGKQLASQKILQLLHPHVKNWGSLLRMYGRESSKMKVQETSDKSVIELQQYAKKNKPNLHILS
 KLQEEMKRLAEREETRKKPKMSIVASAPGGEPLCTVDV

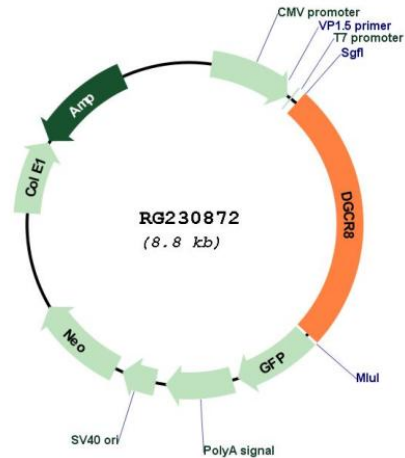
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:


ACCN: NM_001190326

ORF Size: 2220 bp

OTI Disclaimer: 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](#)

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:

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_001190326.1](#), [NP_001177255.1](#)

RefSeq Size: 4437 bp

RefSeq ORF: 2223 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]