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Product datasheet for MR223590

Dgcr6 (NM_010047) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: Dgcr6 (NM_010047) Mouse Tagged ORF Clone

Tag: Myc-DDK

Symbol: Dgcr6

Vector: pCMV6-Entry (PS100001)

E. coli Selection: Kanamycin (25 ug/mL)

Cell Selection: Neomycin

ORF Nucleotide Sequence:

>MR223590 representing NM_010047
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGTAGAGAGCATGGCACCAGCCAGCTCCTTTCAGCAGCGCCTGTCCTACACCACGCTCAGCGACTTGG
CCCTGGCGCTGCTCGACGGAACGGTGTTTGAAATCGTGCAGGGTCTTCTGGAGATTCAGCACCTCACTGA
GAAGAGCCTCTACAACCAGAGACTGCGGCTGCAGAACGAACACCGAGTGCTCAGACAGACTCTAAGGCAG
AAGCACCTGGAAGCCCAGCAGTCCTGCCGGCCCCACAACTTGCCAGTGCTCCAGGCAGCTCAGCAGCGTG
AGCTGGAGGCCATGGAACATCGGATCCGGGAGGAGCAGCAGGCTATGGACCGAAAGATTGTCCTGGAGCT
GGACCGGAAGGTTGCCGACCAGCAGAGCACACTGGAGAAGGCAGGGGTAGCTGGTTTCTACGTGACCACC
AATCCTCAGGAGCTGACGCTGCAGATGAACCTATTGGAACTCATCAGGAAGCTGCAGCAGAGGGGCTGCC
AAGTGGGAAAGGCAGCTCTG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR223590 representing NM_010047
Red=Cloning site Green=Tags(s)

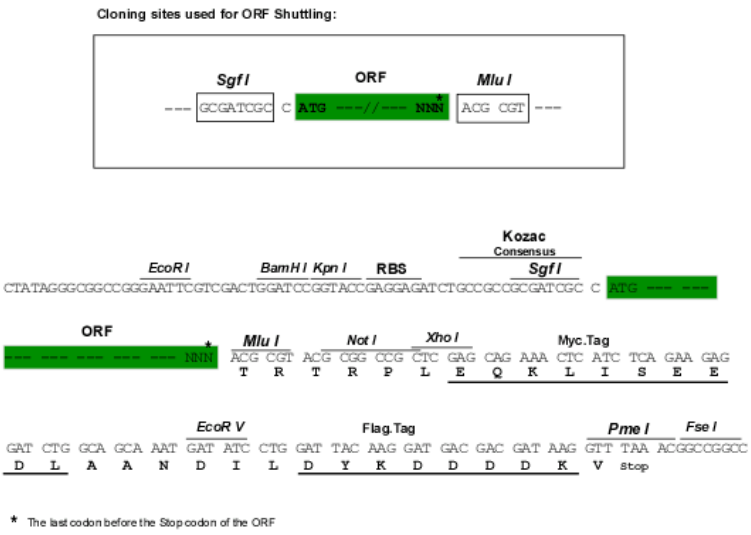
MVESMAPASSFQQRLSYTTLSDLALALLDGTVFEIVQGLLEIQHLTEKSLYNQRLRLQNEHRVLRQTLRQ
KHLEAQQSCRPHNLPVLQAAQQRELEAMEHRIREEQQAMDRKIVLELDRKVADQQSTLEKAGVAGFYVTT
NPQELTLQMNLLELIRKLQQRGCQVGKAAL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

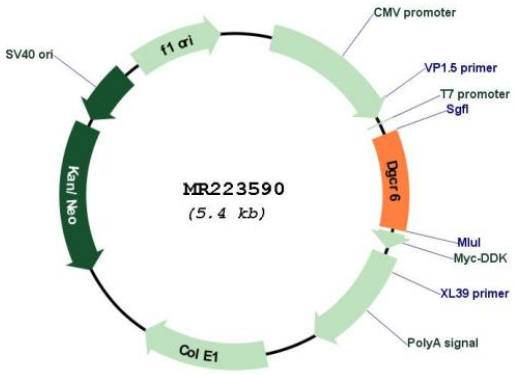
Restriction Sites: SgfI-MluI

View online »

Cloning Scheme:



Plasmid Map:



ACCN: NM_010047

ORF Size: 510 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_010047.4, NP_034177.1
RefSeq Size:	1262 bp
RefSeq ORF:	513 bp
Locus ID:	13353
UniProt ID:	O35347
Cytogenetics:	16 11.19 cM
MW:	20 kDa
Gene Summary:	This gene encodes a protein that is similar to the gonadal protein in Drosophila (fruit fly). The encoded protein is thought to play a role in migration of neural crest cells during development. Deletions in the human gene are associated with DiGeorge syndrome (or velocardiofacial syndrome) which has many clinical features including cardiac abnormalities, cleft palate, atypical facial features, hypocalcemia, hypoparathyroidism and defective development or congenital absence of the thymus. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jan 2014]