

Product datasheet for **RG231089**

DCXR (NM_001195218) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DCXR (NM_001195218) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	DCXR
Synonyms:	DCR; HCR2; HCR11; KIDCR; P34H; PNTSU; SDR20C1; XR
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG231089 representing NM_001195218 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAGCTGTTCTCGCGGGCCCGGGTGTGGTCACCGGGCAGGCAAAGGGCGGGCACGGTCCAGG
CGCTGCACGCGACGGGCGCGGGTGGTGGCTGTGAGCCGGACTCAGGCGGATCTTGACAGCCTTGCCG
CGAGTGCCCGGGATAGAACCCGTGTGCGTGGACCTGGGTGACTGGGAGGCCACCGAGCGGGCGCTGGC
AGCGTGGCCCCGTGGACCTGCTGGTGAACAACCGCGTGTGCCCTGCTGCAGCCCTTCTGGAGGTCA
CCAAGGAGGCCTTTGACAGATCCTTTGAGGTGAACCTGCGTGCAGTCCAGGTGTCGAGATTGTGGC
CAGGGGCTTAATAGCCCGGGGAGTCCCAGGGGCCATCGTGAATGTCTCCAGCCAGTGTCCCAGCGGGCA
GTAACCAACCATAGCGTCTACTGCTCCACCAAGGGTGCCTGGACATGCTGACCAAGGTGATGGCCCTAG
AGCTCGGGCCCCACAAGATCCGAGTGAATGCAAGTAAACCCACAGTGGTGTGACGTCCATGGGCCAGGC
CACCTGGAGTGACCCCCACAAGGCAAGACTATGCTGAACCGAATCCCCTTGGCAAGTTTGTGAGGTA
GAGCAGTGGTGAACGCCATCCTTTCTGCTGAGTGACCGAAGTGGCATGACCACGGTTCCACTTTCG
CGGTGGAAGGGGCTTCTGGGCTGC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG231089 representing NM_001195218
Red=Cloning site Green=Tags(s)

MELFLAGRRVLVTGAGKGRGTVQALHATGARVVAVSRTQADLDSLVRPCGIEPVCVDLGDWEATERALG
 SVGPVDLLVNNAVALLQPFLEVTKEAFDRSFEVNLRAVIQVSQIVARGLIARGVPGAIVNVSSQCSQRA
 VTNHSVYCSTKGALDMLTKVMALELGPHKIRVNAVNPVVMTSMGQATWSDPHKAKTMLNRIPLGKFAEV
 EHVVNAILFLLSDRSMTTGSTLPVEGGFWAC

TRTRPLE - GFP Tag - V

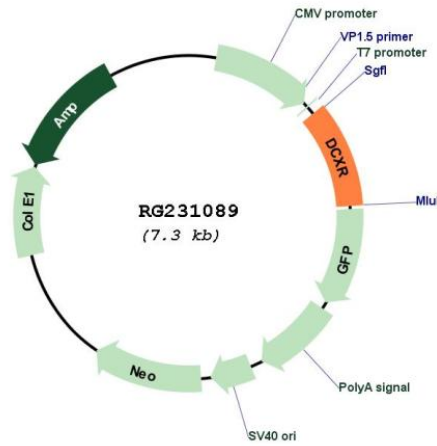
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN: NM_001195218

ORF Size: 726 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:	<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_001195218.1 , NP_001182147.1
RefSeq Size:	854 bp
RefSeq ORF:	729 bp
Locus ID:	51181
UniProt ID:	Q7Z4W1
Cytogenetics:	17q25.3
Protein Families:	Druggable Genome
Protein Pathways:	Metabolic pathways, Pentose and glucuronate interconversions
Gene Summary:	The protein encoded by this gene acts as a homotetramer to catalyze diacetyl reductase and L-xylulose reductase reactions. The encoded protein may play a role in the uronate cycle of glucose metabolism and in the cellular osmoregulation in the proximal renal tubules. Defects in this gene are a cause of pentosuria. Two transcript variants encoding different isoforms have been found for this gene.[provided by RefSeq, Aug 2010]