

Product datasheet for **SC128260**

DCXR (NM_016286) Human Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: DCXR (NM_016286) Human Untagged Clone
Tag: Tag Free
Symbol: DCXR
Synonyms: DCR; HCR2; HCRII; KIDCR; P34H; PNTSU; SDR20C1; XR
Mammalian Cell Selection: None
Vector: pCMV6-XL4
E. coli Selection: Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene ORF sequence for NM_016286 edited
ATGGAGCTGTTCCCTCGCGGGCCCGGGTGCTGGTCACCGGGGCAGGCAAAGGTATAGGG
CGCGGCACGGTCCAGGCCTGCACGCGACGGGCGCGGGTGGTGGCTGTGAGCCGGACT
CAGGCGGATCTTGACAGCCTTGTCCGCGAGTGCCCGGGATAGAACCCTGTGCGTGGAC
CTGGGTGACTGGGAGGCCACCGAGCGGGCGCTGGGCAGCGTGGGCCCTGGACCTGCTG
GTGAACAACGCCGCTGTCGCCCTGCTGCAGCCCTTCTGGAGGTCACCAAGGAGGCCTTT
GACAGATCCTTTGAGGTGAACCTGCGTGCGGTCATCCAGGTGTCGAGATTGTGGCCAGG
GGCTTAATAGCCCGGGGAGTCCCAGGGGCCATCGTGAATGTCTCCAGCCAGTGCTCCCAG
CGGGCAGTAACTAACCATAGCGTCTACTGCTCCACCAAGGGTGCCTGGACATGCTGACC
AAGGTGATGGCCCTAGAGCTCGGGCCCCACAAGATCCGAGTGAATGCAGTAAACCCACA
GTGGTGTGACGTCCATGGGCCAGGCCACCTGGAGTGACCCCAAGGCAAGACTATG
CTGAACCGAATCCCACTTGGCAAGTTTGTCTGAGGTAGAGCACGTGGTGAACGCCATCCTC
TTTCTGCTGAGTGACCGAAGTGGCATGACCACGGTTCCACTTTGCCGGTGAAGGGGGC
TTCTGGGCTGCTGA



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5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_016286 unedited GGTCAGAAATTTGTATACGACTCACTATAGGCGGCCGCAATTCGCACCAGCCGACTGGAG CTGTTCTCGCGGGCCGCGGGTGTGGTACCAGGGCAGGCAAAGGTATAGGGCGCGGC ACGGTCCAGGCGCTGCACGCGACGGGCGCGGGTGGTGGCTGTGAGCCGGACTCAGGCG GATCTTGACAGCCTTGTCCGCGAGTGCCCGGGGATAGAACCCGTGTGCGTGGACCTGGGT GACTGGGAGGCCACCGAGCGGGCGTGGCAGCGTGGGCCCGGTGGACCTGCTGGTGAAC AACGCCGCTGTCGCCCTGCTGCAGCCCTTCTGGAGGTACCAAGGAGGCCTTTGACAGA TCCTTTGAGGTGAACCTGCGTGCAGTCCAGGTGTCGAGATTGTGGCCAGGGGCTTA ATAGCCCGGGGAGTCCCAGGGGCATCGTGAATGTCTCCAGCCAGTGTCCCAGCGGGCA GTAACATAACCATAGCGTCTACTGCTCCACCAAGGGTGCCTGGACATGCTGACCAAGGTG ATGGCCCTAGAGCTCGGGCCCCACAAGATCCGAGTGAATGCAGTAAACCCACAGTGGTG ATGACGTCCATGGGCCAGGCCACCTGGAGTGACCCCAAGGCCAAGACTATGCTGAAC CGAATCCCACTTGGCAAGTTTGTGAGGTAGAGCACGTGGTGAACGCCATCCTCTTTCTG CTGAGTGACCGAAGTGGCATGACCACGGGTTCCACTTTGCCGTGAAAGGGGGGCTTCTG GCCTGCTGAGCTCCCTNCAACACCTCAAGCCCATGCCGTGCTCATCTACCCCATCCCT NNCATAACCTGATTCTGCTGCCAAAAAANNAAAAAANNAANAAAAAACCTGACTC TAGATGCGGNCCGCGTCATAGCTGNTCCTGACAGAACCCGGTGGCATCCTG</p>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_016286 unedited NCCCTTGGGGATGGCAACTNCCAGNCCAGNAAAGCACTGGGNAGGGTACAGGGATG CCACCCGGGATCTGTTCCAGGAAACAGCTATGACCGCGGCCCAATCTAGAGTCGAGTTTT TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTGGGCAGCAAATCAGGTTTATTGGAGGA TTGGGGTAGGATGAGCACGGCATGGGGCTTGGGTGTGTGGAGGGAGCTCAACAGGCC AGAAGCCCTTCCACCGCAAAGTGAAACCCGTGGTTCATGCCACTTCGGTCACTCAGCA AAAAGAGGATGGCGTTCCACACGTGCTCTACCTCAACAACTTGCCAAGTGGGATTCGGT TCAACATAATCTTGGCCTTGTGGGGTCACTCCAGGTGGCCTGGCCCATGGACGTCATCA CCACTGTGGGGTTTACTGCATCACTCGGATCTTGTGGGGCCGAGCTCTAGGGCCATCA CCTTGGTCAGCATGTCCAGGGCACCCCTTGGTGGAGCAGTAGACGCTATGGTTAGTTACTG CCCCTGGGAGCACTGGCTGGAGACATTACGATGGCCCTGGGACTCCCCGGGCTATTA AGCCCTGGCCACAATCTGCGACACCTGGATGACCGCACGCAGGTTACCTCAAAGGATC TGTCAAAGGCCTCCTTGGTGACCTCCAAGAAGGGCTGCAGCAGGGCGACAGCGGCTTGT TCACCAGCAGGTCCACGGGGCCACGCTGCCAGCGCCCGCTCGGTGGCTCCCAAGTAC CCAGGTCCACGCACAGGGTTCTATCCCCGGGCACTCGCGGACAAAGCTGTCAAGATCCG CCTGAGTTCGCTCACACCACCCGCGCGCCGTTGCGTGCAGCGCCTGGACCGTGC GCGCCTATACCTTTTGTGGNCCG</p>
Restriction Sites:	NotI-NotI
ACCN:	NM_016286
Insert Size:	900 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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_016286.2 , NP_057370.1
RefSeq Size:	829 bp
RefSeq ORF:	735 bp
Locus ID:	51181
UniProt ID:	Q7Z4W1
Cytogenetics:	17q25.3
Domains:	adh_short
Protein Families:	Druggable Genome
Protein Pathways:	Metabolic pathways, Pentose and glucuronate interconversions
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1).</p>