

## Product datasheet for **SC328894**

### DGCR2 (NM\_001184781) Human Untagged Clone

#### Product data:

|                           |   |
|---------------------------|---|
| Product Type:             | Expression Plasmids                       |
| Product Name:             | DGCR2 (NM_001184781) Human Untagged Clone |
| Tag:                      | Tag Free                                  |
| Symbol:                   | DGCR2                                     |
| Synonyms:                 | DGS-C; IDD; LAN; SEZ-12                   |
| Mammalian Cell Selection: | Neomycin                                  |
| Vector:                   | pCMV6-Entry (PS100001)                    |
| E. coli Selection:        | Kanamycin (25 ug/mL)                      |



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Fully Sequenced ORF: >SC328894 representing NM\_001184781.  
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

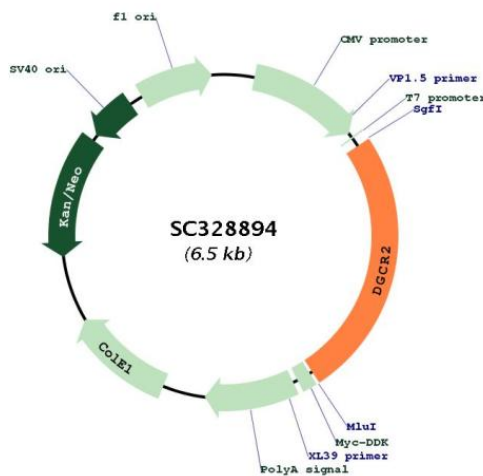
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CTCCCCCTGGCAGTGTGACGGCTGGGCGACTTGCAGGATGAGAGCGACGAAGCCAAGTCCAGAAGTG
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ACGCGTACGCGGCCGCTGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGCGC
  
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Restriction Sites:

Sgfl-MluI

Plasmid Map:



|                               |   |
|-------------------------------|---|
| <b>ACCN:</b>                  | NM_001184781  |
| <b>Insert Size:</b>           | 1644 bp   |
| <b>OTI Disclaimer:</b>        | 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).  |
| <b>OTI Annotation:</b>        | This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.  |
| <b>Components:</b>            | 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).  |
| <b>Reconstitution Method:</b> | <ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>   |
| <b>RefSeq:</b>                | <u><a href="#">NM_001184781.1</a></u>   |
| <b>RefSeq Size:</b>           | 4495 bp   |
| <b>RefSeq ORF:</b>            | 1644 bp   |
| <b>Locus ID:</b>              | 9993  |
| <b>Cytogenetics:</b>          | 22q11.21  |
| <b>Protein Families:</b>      | Druggable Genome, Transmembrane   |
| <b>MW:</b>                    | 60.6 kDa  |
| <b>Gene Summary:</b>          | <p>Deletions of the 22q11.2 have been associated with a wide range of developmental defects (notably DiGeorge syndrome, velocardiofacial syndrome, conotruncal anomaly face syndrome and isolated conotruncal cardiac defects) classified under the acronym CATCH 22. The DGCR2 gene encodes a novel putative adhesion receptor protein, which could play a role in neural crest cells migration, a process which has been proposed to be altered in DiGeorge syndrome. Alternative splicing results in multiple transcript variants.[provided by RefSeq, May 2010]</p> <p>Transcript Variant: This variant (4) uses an alternate in-frame splice site in the 5' coding region, compared to variant 1. The resulting isoform (4) lacks a short internal segment, compared to isoform 1.</p> |