

## Product datasheet for **RG202160**

### **CORD2 (CRX) (NM\_000554) Human Tagged ORF Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** CORD2 (CRX) (NM\_000554) Human Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** CORD2  
**Synonyms:** CORD2; CRD; LCA7; OTX3  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >RG202160 representing NM\_000554  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGATGGCGTATGAACCCGGGGCCCCACTATTCTGTCAACGCCTTGGCCCTAAGTGGCCCCAGTGTGG  
 ATCTGATGCACCAGGCTGTGCCCTACCCAAGCGCCCCAGGAAGCAGCGGGGAGCGCACACCTTCAC  
 CCGGAGCCAAGTGGAGGAGCTGGAGGCACTGTTTGCCAAGACCCAGTACCCAGACGTCTATGCCCGTGAG  
 GAGGTGGCTCTGAAGATCAATCTGCCTGAGTCCAGGGTTCAGGTTTGGTTCAAGAACCGGAGGGCTAAAT  
 GCAGGCAGCAGCGACAGCAGCAGAAACAGCAGCAGCAGCCCCAGGGGGCCAGGCCAAGGCCCGCCTGC  
 CAAGAGGAAGGGCGGCAGTCCCAAGACCCTCCACAGATGTGTGTCCAGACCCTCTGGGCATCTCAGAT  
 TCCTACAGTCCCCCTCTGCCCGGCCCTCAGGCTCCCCAACCCAGGCAGTGGCCACTGTGTCCATCTGGA  
 GCCCAGCCTCAGAGTCCCCTTTGCCTGAGGGCGCAGCGGGCTGGGCTGGTGGCCTCAGGGCCGTCTCTGAC  
 CTCCGCCCCCTATGCCATGACCTACGCCCGGCCCTCCGCTTTCTGCTCTTCCCCCTCCGCTATGGGTCT  
 CCGAGCTCCTATTTAGCGGCCTAGACCCTACCTTTCTCCATGGTGGCCAGCTAGGGGGCCCCGGCTC  
 TTAGCCCCCTCTCTGGCCCCTCCGTGGGACCTTCCCTGGCCAGTCCCCACCTCCATCAGGCCAGAG  
 CTATGGCGCCTACAGCCCCGTGGATAGCTTGAATTCAAGGACCCACGGGCACCTGGAAATTCACCTAC  
 AATCCCATGGACCCTCTGGACTACAAGGATCAGAGTGCCTGGAAGTTTCAGATCTTG

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA



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**Protein Sequence:** >RG202160 representing NM\_000554  
 Red=Cloning site Green=Tags(s)

MMAVMNPGPHYSVNALALSGPSVDLMHQAVPYPSAPRKQRRERTTFTRSQLEELEALFAKTQYPDVYARE  
 EVALKINLPESRVQVWFKNRRAKCRQQRQQKQQQPPGGQAKARPAKRKAGTSPRPSTDVCPDPLGISD  
 SYSPPLPGPSGSPPTTAVATVSIWSPASESPLPEAQRAGLVASGPSLTSAPYAMTYAPASAFCSPPSAYGS  
 PSSYFSGLDPYLSPMVPQLGGPALSPLSGPSVGPSTLAQSPTSLSGQSYGAYSPVDSLEFKDPTGTWKFTY  
 NPMDPLDYKQSAWKFAQIL

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_000554

**ORF Size:** 897 bp

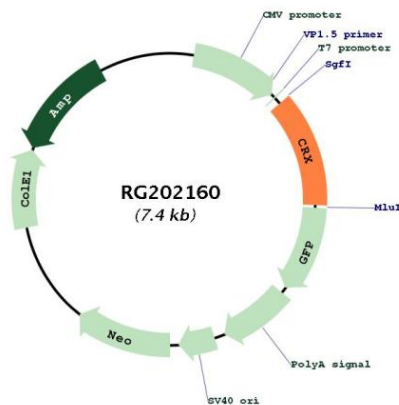
**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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.

<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_000554.6</a></u>
<b>RefSeq Size:</b>	2376 bp
<b>RefSeq ORF:</b>	900 bp
<b>Locus ID:</b>	1406
<b>UniProt ID:</b>	<u><a href="#">O43186</a></u>
<b>Cytogenetics:</b>	19q13.33
<b>Protein Families:</b>	Druggable Genome, Transcription Factors
<b>Gene Summary:</b>	The protein encoded by this gene is a photoreceptor-specific transcription factor which plays a role in the differentiation of photoreceptor cells. This homeodomain protein is necessary for the maintenance of normal cone and rod function. Mutations in this gene are associated with photoreceptor degeneration, Leber congenital amaurosis type III and the autosomal dominant cone-rod dystrophy 2. Several alternatively spliced transcript variants of this gene have been described, but the full-length nature of some variants has not been determined. [provided by RefSeq, Jul 2008]

**Product images:**



Circular map for RG202160