

## Product datasheet for **RG233059**

### **CUX1 (NM\_001202544) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	CUX1 (NM_001202544) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	CUX1
Synonyms:	CASP; CDP; CDP/Cut; CDP1; Clox; COY1; CUTL1; CUX; Cux/CDP; GDDI; GOLIM6; Nbla10317; p75; p100; p110; p200
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide  
Sequence:

>RG233059 representing NM\_001202544  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCCGCGATCGCC

ATGGCGCCAATGTGGGATCGATGTTTCAATATTGGAAGCGCTTTGATTTACAGCAGCTGCAGAGAGAAC  
TCGATGCCACCGCAACGGTATTGGCGAACCGGCAGGATGAAAGTGAGCAGTCCAGAAAGCGCTTATCGA  
ACAGAGCCGGGAGTTCAAGAAGAACAACCTCCAGAGATTGATGCACTGAGTAAAAGAAGCAAGGAAGCTGAA  
GCAGCTTTCTTGAATGTCTACAAAAGATTGATTGACGTCCAGATCCCGTACCAGCTTTGGATCTCGGAC  
AGCAACTCCAGCTCAAAGTGACGCGCTGCACGATATTGAAACAGAGAACCAGAACTTAGGGAACTCT  
GGAAGAATACAACAAGGAATTTGCTGAAGTAAAAATCAAGAGGTTACGATAAAAAGCACTTAAAGAGAAA  
ATCCGAGAATATGAACAGACACTGAAGAACCAAGCCGAAACCATAGCTCTTGAGAAGGAACAGAAGTTAC  
AGAATGACTTTGCAGAAAAGGAGAGAAAGCTGCAGGAGACACAGATGTCCACCACCTCAAAGCTGGAGGA  
AGCTGAGCATAAGGTTCCAGAGCTACAAAACAGCCCTGGAAAAAAGCTGAAACAGAAATTATTTGACCTGAAA  
ACCAAATACGATGAAGAACTACTGCAAAGCCGACGAGATTGAAATGATCATGACGGACCTTGAAGGG  
CAAACCAGAGGGCAGAGGTGGCTCAGAGAGAGGGCGGAGACCTTAAAGGAACAGCTCTCATCGGCCAATCA  
CTCCCTCCAGCTGGCCTCACAGATCCAGAAGGCACCAGACGTGGAGCAGGCCATAGAGGTGCTGACCCGC  
TCCAGCCTAGAAGTTGAGTTGGCCGCCAAGGAGCGGGAGATCGCACAGCTGGTGGAGGACGTGCAGAGAC  
TCCAGGCCAGCCTCACCAAGCTGCGGGAGAATTCGGCCAGCCAGATCTCACAGCTTGAGCAGCAGCTGAG  
CGCAAAAACAGCACACTCAAACAAGTGAAGAAAAAAGCTCAAAGGCCAGGCTGACTATGAAGAGGTGAAG  
AAAGAGCTGAACATTCTGAAGTCCATGGAGTTTGCACCGTCCGAGGGCGCTGGGACACAGGATGCGGCCA  
AGCCCTGGAGGTGCTGTTGCTGGAGAAGAACCCTCGCTGCAGTCCGAGAACCGCGCTGCGCATCTC  
CAACAGCGACCTGAGCGGACGCTGTGCGGAGCTGCAAGTCCGTATCACTGAGGCTGTGGCCACAGCCACT  
GAGCAGAGAGAGCTGATCGCCCGCTGGAGCAGGACCTGAGCATCATTCAGTCCATCCAGCGGCCCGATG  
CCGAGGGTGCCGCTGAGCACCGCTGGAGAAGATCCAGAGCCCATCAAAGAGGCCACTGCCCTATTCTA  
CGGACCTGCAGCACAGCCAGCGGTGCCCTCCCAGAGGGCCAGGTGGATTCACTGCTTTCCATCATCTCC  
AGCCAGAGGGAGCGCTTCCGTGCCCGGAACCAGGAGCTTGAGGCCGAGAACCCTGGCCAGCACACCC  
TCCAGGCCCTGCAGAGTGAGCTGGACAGCCTGCGCGCGACAACATCAAGCTCTTTGAGAAGATCAAGTT  
CCTGCAGAGCTACCCTGGCCGGGCAGCGCAGTATGACACGGAGCTGCGGTACTCGTCCAGTACGAG  
GAGCGCCTGGACCCTTCTCCTCTTCCAGCAAGCGGGAGCGGCAGAGGAAGTACCTGAGCTTGAGTCCCT  
GGGACAAGGCCACCTCAGCATGGGGCGTCTGGTTCTCTCAACAAGATGGCGCGCACCATCGGCTTCTT  
CTACACACTGTTCTGCACTGCCTGGTCTTCTGGTGCTCTACAAGCTGGCATGGAGCGAGAGCATGGAG  
AGGGACTGTGCCACCTTCTGCGCAAGAAGTTCGCTGACCACCTGCACAAGTTCCACGAGAATGACAACG  
GGGCTGCGGCTGGTGACTTGTGGCAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >RG233059 representing NM\_001202544  
 Red=Cloning site Green=Tags(s)

MAANVGSMFYWKRFDLQQLQRELDATATVLANRQDESEQSRKRLIEQSREFKKNTPEDALSKRSKEAE  
 AAFLNVYKRLIDVPDPVPALDLGQQLQLKVQRLHDIETENQKLRETL EEYNKEFAEVKNQEVTIKALKEK  
 IREYEQTLKNQAETIALEKEQKLQNDFAEKERKLQETQMSTTSKLEEAHKKVQSLQTALEKTRTELDL  
 TKYDEETTAKADEIEMIMTDLERANQRAEVAQREAEATLREQLSSANHSLQLASQIQKAPDVEQAIEVLTR  
 SSLEVELAAKEREIAQLVEDVQRLQASLTKLRENSASQISQLEQQLSAKNSTLQLEEKLGQADYEEVK  
 KELNILKSMEFAPSEGAGTQDAAKPLEVLLLEKNRSLQSENAALRISNSDLSGRCAELQVRITEAVATAT  
 EQRELIARLEQDLSIIQSIQRPDAEGAAHRLEKIPEPIKEATALFYGPAAPASGALPEGQVDSLLSIIIS  
 SQRERFRARNQELEAENRLAQHTLQALQSELDLADNLIKLFKIKFLQSYPRGSGSDDELRYSSQYE  
 ERLDPFSSF SKRERQRKYLSPWDKATLSMGRVLVSNKMARTIGFFYTLFLHCLVFLVLYKLWSESME  
 RDCATFCAKKFADHLHKFHENDNGAAAGDLWQ

TRTRPLE - GFP Tag - V

**Restriction Sites:**

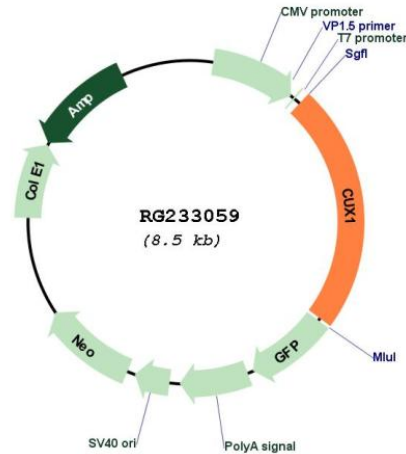
SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



## Plasmid Map:



ACCN: NM\_001202544

ORF Size: 1986 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\\_001202544.3](#)

RefSeq Size: 2991 bp

RefSeq ORF: 1989 bp

Locus ID: 1523

UniProt ID: [Q13948](#)

Cytogenetics: 7q22.1

Protein Families: Transcription Factors, Transmembrane

Gene Summary: The protein encoded by this gene is a member of the homeodomain family of DNA binding proteins. It may regulate gene expression, morphogenesis, and differentiation and it may also play a role in the cell cycle progression. Several alternatively spliced transcript variants encoding different isoforms have been identified.[provided by RefSeq, Feb 2011]