

## Product datasheet for **RG203560**

### OTX1 (NM\_014562) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	OTX1 (NM_014562) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	OTX1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG203560 representing NM_014562 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGATGTCTTACCTCAAACAACCCCATACGGCATGAACGGGCTGGGCCTGGCCGGGCCCGCCATGGACC  
TCCTGCACCCATCCGTGGGCTATCCGGCCACTCCGCGGAAGCAGCGGGGAGCGCACCACTTCACGCG  
TTCACAGCTGGACGTGCTCGAGGCGCTCTCGCCAAGACTCGTACCCTGACATCTTCATGCGGGAGGAG  
GTGGCGCTCAAGATCAACTGCCGGAGTCCAGTCCAGGTCTGGTTCAAGAACCGCCGCCAAATGCC  
GCCAGCAGCAGCAGAGCGGGAGCGGAACCAAGAGCCGCCAGCCAAGAAGAAGTCCCTCCAGTCCGGGA  
GAGCTCGGGCTCCGAAAGCAGTGGCCAATTCACGCCGCCAGCTGTGTCCAGCTCTGCCTCGTCTCTAGC  
TCGGCGTCCAGCTCTCCGCCAACCCAGCGGCTGCAGCGGCTGCGGGACTAGGTGGGAACCCGGTGGCGG  
CCGCGTGTGCTGAGTACACCAGCTGCCTCATCTATCTGGAGCCCGGCCTCCATCTCGCCAGGCTCAGC  
GCCCAGTCCGTGTCGGTCCCGGAGCCATTGGCCGCGCCTAGCAACACCTCGTGTATGCAGCGCTCCGTA  
GCTGCAGGCGCCGCCACCCGAGCAGCCTTTATCCCATGTCTACGGCCAGGGCGGCAGCTACGGCCAAG  
GCTACCCTACGCCCTCTCTTCTACTTTGGCGGCTGGACTGCAGCTCATACTAGCGCCCATGCACCT  
ACATCACCACCCGACCCAGCTGAGCCCCATGGCACCTCCTCCATGGCGGGCCACCATCATCACCACCA  
CATGCGCACCCCGTTGAGCCAGTCTCAGGCCACCACCACCACCATCACCACCACCACCAAGGCT  
ACGGTGGCTCTGGGCTTGCCTTCAACTCTGCCACTGCTTGGATTACAAGGAGCCTGGCGCGCTGCTGC  
TTCTCCGCTGGAACTCAACTCAACTCCCCGACTGTCTGGACTATAAGGACCAAGCCTCATGGCGG  
TTCCAGTCTTG

AG**CGGACCG**ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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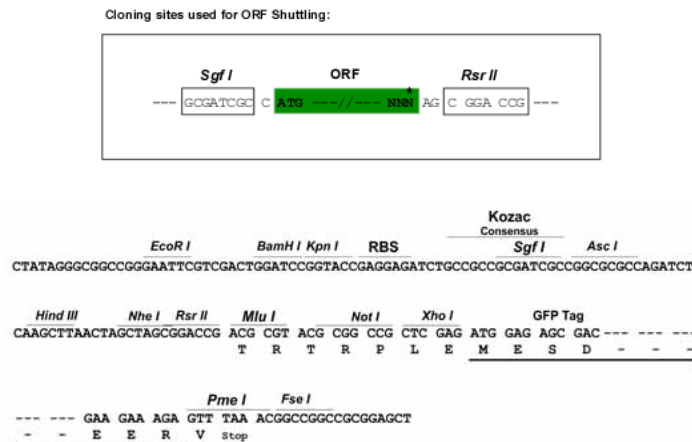
**Protein Sequence:** >RG203560 representing NM\_014562  
 Red=Cloning site Green=Tags(s)

MMSYLKQPPYGMNGLGLAGPAMDLLHPSVGYPATPRKQRRERTTFTRSQLDVLEALFAKTRYPDIFMREE  
 VALKINLPESRVQVWFKNRRRAKCRQQQSGSGTKSRPAKKKSSPVRESSGSESSGQFTPPAVSSASSSS  
 SASSSSANPAAAAAGLGGNPVAAASLSTPAASSIWSPASISPGSAPASVSVPEPLAAPSNTSCMQRSV  
 AAGAATAAASYPMSYGGQGGSYGQGYPTPSSSYFGGVDCSSYLAPMHSHHHPHQLSPMAPSSMAGHHHHHP  
 HAHHPLSQSSGHHHHHHHHHQGYGGSLAFNSADCLDYKEPGAAAASSAWKLNFNPSDCLDYKDQASWR  
 FQVL

SGPTRRRLE - GFP Tag - V

**Restriction Sites:** SgfI-RsrII

**Cloning Scheme:**



**ACCN:** NM\_014562

**ORF Size:** 1062 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\\_014562.1](#)

**RefSeq Size:** 2176 bp

**RefSeq ORF:** 1065 bp

**Locus ID:** 5013

**UniProt ID:** [P32242](#)

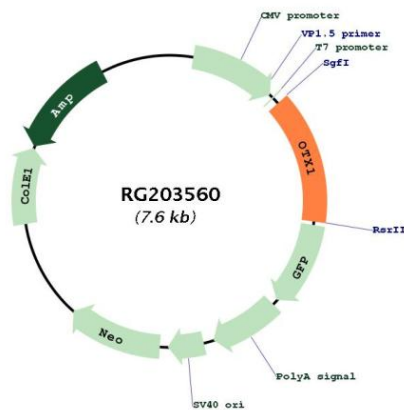
**Cytogenetics:** 2p15

**Domains:** homeobox, TF\_Otx

**Protein Families:** Druggable Genome, Transcription Factors

**Gene Summary:** This gene encodes a member of the bicoid sub-family of homeodomain-containing transcription factors. The encoded protein acts as a transcription factor and may play a role in brain and sensory organ development. A similar protein in mouse is required for proper brain and sensory organ development and can cause epilepsy. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jan 2015]

### Product images:



Circular map for RG203560