

## Product datasheet for **RG203093**

### ALX1 (NM\_006982) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	ALX1 (NM_006982) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	ALX1
Synonyms:	CART1; FND3; HEL23
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG203093 representing NM_006982 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGAGTTTCTGAGCGAGAAGTTTGCCCTCAAGAGCCCTCCGAGTAAAAACAGTGACTTTTACATGGGCG  
CAGGAGGTCTCTGGAGCACGTTATGGAGACGCTGGACAATGAGTCCTTTACAGCAAAGCGTCTGCAGG  
CAAATGCGTGCAGGCCTTCGGACCCCTGCCCGCGCCGAGCATCACGTGCGCTTGGAGAGGACCTCGCCC  
TGTCAGGACAGCAGCGTGAAGTATGGGATCACTAAAGTAGAAGGACAGCCCTTCACACCGAACTGAATA  
GAGCTATGGACAAGTAAACAGTCTCCGAATGTCTCCCGTGAAAGGGATGCAAGAGAAGGGAGAGCTGGA  
TGAAGTTGGGGATAAATGTGATAGCAATGTATCCAGCAGTAAGAAACGGAGGCACCGAACCCATTCACC  
AGTTTGCAGCTAGAGGAGCTGGAGAAAGTCTTTACAGAAACTCATTACCCGGATGTGTATGTCAGAGAAC  
AGCTTGCTCTGAGGACAGAGCTCACTGAGGCCAGGGTCCAGGTTTGGTTTCAAAATCGAAGGGCCAAATG  
GAGAAAAAGGGAACGTTATGGCCAAATACAACAAGCGAAAAGCCATTTTGTGCCACCTATGATATATCA  
GTTTTGCCAAGGACTGACAGCTACCCACAGATTCAGAACAAATTTGTGGGCAGGAAATGCAAGTGGTGGTT  
CTGTGGTTACTTCATGCATGTTACCACGTGACACTTCTCCTGTATGACACCTTATTCTCACTCGCCTCG  
GACAGATTCAGTTACACGGGGTTTTCAAACCACGAGAACAGTTCAGCCACGTGCCCTCAACAATTTT  
TTCAGTACTCTCTTCTACTGGGGCAACCAATGGACATGCATTTGAAACAAAGCCAGAGTTTGAAGGA  
GGTCTTCCAGTATCGCAGTCTTTCGAATGAAAGCCAAGGAGCACACCGCCAATATTTTCATGGGCCATG

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG203093 representing NM\_006982  
Red=Cloning site Green=Tags(s)

```
MEFLSEKFALKSPPSKNSDFYMGAGGPLEHVMETLDNESFYKASAGKCVQAFGLPRAEHHVRLERTSP
CQDSSVNYGITKVEGQPLHTELNRAMDNCNSLRMSPVKGMQEKGELDELGDKCDSNVSSSKRRHRTFTT
SLQLEELEKVFQKTHYPDVVYREQLALRTELTEARVQVWFQNRRAKWRKRERYGQIQQAKSHFAATYDIS
VLPRTDSYPQIQNNLWAGNASGGSVVTSCLMPRTDSSCMTYPYSHSPRTDSSYTGFSNHQNFQSHVPLNPF
FTDSSLTGATNGHAFETKPEFERRSSIAVLRMKAKEHTANISWAM
```

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_006982

**ORF Size:** 978 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\\_006982.3](#)

**RefSeq Size:** 1442 bp

**RefSeq ORF:** 981 bp

**Locus ID:** 8092

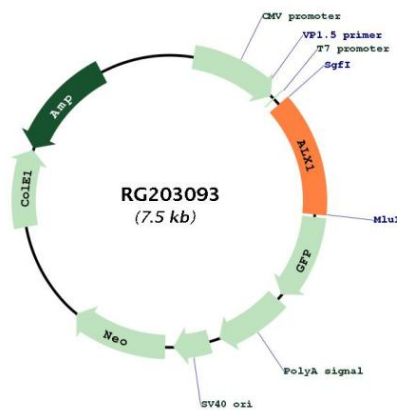
**UniProt ID:** [Q15699](#)

**Cytogenetics:** 12q21.31

**Protein Families:** Transcription Factors

**Gene Summary:** The specific function of this gene has yet to be determined in humans; however, in rodents, it is necessary for survival of the forebrain mesenchyme and may also be involved in development of the cervix. Mutations in the mouse gene lead to neural tube defects such as acrania and meroanencephaly. [provided by RefSeq, Jul 2008]

### Product images:



Circular map for RG203093