

Product datasheet for **MG222913**

Alas2 (NM_001102446) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Alas2 (NM_001102446) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Alas2
Synonyms:	ALAS; Alas-2; ALAS-E; ALASE
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG222913 representing NM_001102446
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGTGGCAGCAGCTATGTTGCTACGGTCTGTCCAGTGTCTCTCAGGGCCCCACAGGCCTCTGGGCA
 AAGTGGCTAAAACCTACCAGTTCCTATTTAGTATTGGACGCTGCCCATCCTGGCCACTCAAGGACCAAC
 CTGTTCTCAAATCCATCTTAAGGCAACCAAGGCTGGAGGAGAAGTCCAAGACAGGAAGAGCAAGATTGTG
 CAGAGGGCAGCTCCAGAAGTTCAAGAGGATGTCAAGACTTTCAAGACAGACCTGTGAGCACCATGGATT
 CAACCACCCGAAGCCATTCATTTCTAGTTTCCAGGAGCCAGAGCAGACTGAAGGGCAGTTCACCCACT
 GATTCAGAACAATATGACTGGAAGCCAGGCTTTCGGTTATGACCAATTTTTAGAGACAAGATCATGGAG
 AAGAAACAGGACCACACCTACCGTGTGTTCAAGACTGTGAATCGTTGGGCTAATGCCTACCCCTTGCC
 AACACTTCTCCGAGGCATCTATGGCATCAAAGGATGTTTCTGTTGGTGTAGTAATGACTATTTGGGCAT
 AAGCAGACACCCCTCGTGTCTTGCAGGCCATAGAGGAGACCCTGAAGAATCATGGAGCTGGAGCTGGGGC
 ACTCGCAATATCTCAGGTACCAGCAAGTTTCATGTGGAGCTTGAACAGGAGCTGGCTGAACCTACACCAGA
 AAGACTCAGCTCTGCTCTTCTCCTCTGTTTTGTGGCCAATGATTCTACTCTCTTACACTGGCCAAGCT
 TCTGCCAGGGTGTGAGATCTACTCAGATGCAGGCAATCATGCCTCCATGATCCAAGGCATTCGCAACAGT
 GGTGCAGCCAAGTTTGTCTTTCAGACACAATGACCCAGGCCACCTGAAGAACTTCTCGAGAAGTCTGATC
 CCAAGACACCAAAAATTGTGGCTTTTGGAGACTGTTTCATTCATGGATGGTCCATCTGTCCTCTGGAGGA
 ATGTGTGATGTGGCCACCAGTATGGAGCCCTGACCTTCGTAGATGAAGTCCATGCTGTAGGACTGTAT
 GGAGCCCGGGGTGAGGATCGGGGAGCGTGATGGAATTATGCACAAGCTTGACATCATCTCTGGAACCTC
 TTGGCAAGGCCTTTGGTTGCGTCGGTGGCTATATAGCCAGCACTCGGGACTTGGTGGACATGGTGGCTC
 CTACGCTGCAGGCTTCATCTTTACCACTTCACTGCCTCCCATGGTGTCTCTGGGGCTCTAGAATCTGTG
 CGCTACTCAAGGGAGAGGAGGGTCAAGCCCTGAGGCGGGCACACCAGCGCAATGTCAAACACATGCGCC
 AGCTGCTAATGGACAGGGGCTTTCTGTTATCCCTGTCCAGCCACATCATCCCATCAGGGTGGGTAA
 TGCAGCACTCAACAGCAAGATCTGTGATCTTCTGCTCTCCAAGCACAGCATCTATGTGCAGGCCATCAAC
 TACCCAACTGTGCTCGTGGTGGAGACTACTGCGCTTGGCCCCCTCCCCCACCACAGCCCTCAGATGA
 TGGAAAATTTGTGGAGAAGCTGCTGCTGGCCTGGACTGAGGTGGGGCTGCCCTCCAAGATGTGTCTGT
 GGCTGCATGCAACTTCTGTCATCGTCTGTGCACTTTGAAGTTATGAGCGAGTGGGAGCGATCCTACTTT
 GGAACATGGGACCCCAATATGTTACCACCTATGCT

ACGCGTACGCGGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>MG222913 representing NM_001102446
 Red=Cloning site Green=Tags(s)

MVAAMLLRSCPVLVLSQGPVLLGKVAQTYQFLFSIGRCPILATQGPVCSQIHLKATKAGGELQDRKSKIV
 QRAAPEVQEDVKTFFKTDLLSTMDSTTRSHSFPSPFQEPTEGAVPHLIQNNMTGSQAFGYDQFFRDKIME
 KKQDHTYRVFKTVNRWANAYPFAQHFSEASMASKDVSVWCSNDYLGISRHPVLAIEETLNKHGAGAGG
 TRNISGTSKHFVELEQELAEHQKDSALLFSSCFVANDSTLFTLAKLLPGCEIYSDAGNHASMIQGIKNS
 GAAKFVFRHNDPGHLKLLLEKSDPKTPKIVAFETVHSMGAIKPLEELCDVAHQYALTFVDEVHAVGLY
 GARGAGIGERDGIIMHKLDIISGTLGKAFGCVGGYIASTRDLVDMVRSYAAGFIFTTSLPPMVLGSALESV
 RLLKGEQGALRRHQNRNVKHMRLQMDRGFPVIPCPSHIPIRVGNAAALNSKICDLLLLSKHSIYVQAIN
 YPTVPRGEELLRLAPSPHHSPQMMENFVEKLLLAWEVGLPLQDVSVAAACNFCHRPVHFELMSEWERSYF
 GNMGPQYVTTYA

TRTRPLE – GFP Tag – V

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_001102446

ORF Size: 1716 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_001102446.1](#), [NP_001095916.1](#)

RefSeq Size: 1938 bp

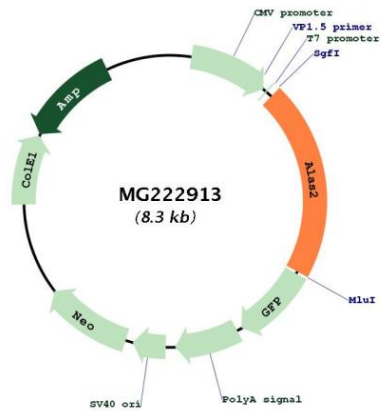
RefSeq ORF: 1719 bp

Locus ID: 11656

UniProt ID: [P08680](#)

Cytogenetics: X 68.46 cM

Product images:



Circular map for MG222913