

Product datasheet for **MG222911**

Alas2 (NM_009653) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Alas2 (NM_009653) 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:

>MG222911 representing NM_009653
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGTGGCAGCAGCTATGTTGCTACGGTCTGTCCAGTGTCTCTCAGGGCCCCACAGGCCCTCTGGGCA
 AAGTGGCTAAAACCTACCAAGTTCCTATTTAGTATTGGACGCTGCCCATCCTGGCCACTCAAGGACCAAC
 CTGTTCTCAAATCCATCTTAAGGCAACCAAGGCTGGAGGAGACTCTCCATCTTGGGCTAAGAGCCATTGT
 CCTTTCATGCTGTGAGAAGTCCAAGACAGGAAGAGCAAGATTGTGCAGAGGGCAGCTCCAGAAGTCAAG
 AGGATGTCAAGACTTTCAAGACAGACCTGCTGAGCACCATTGGATTCAACCACCCGAAGCCATTCAATTTCC
 TAGTTTCCAGGAGCCAGAGCAGACTGAAGGGCAGTTCACCCACCTGATTCAGAACAATATGACTGGAAGC
 CAGGCTTTCGGTTATGACCAATTTTTCAGAGACAAGATCATGGAGAAGAAACAGGACCACACCTACCGTG
 TGTTCAAGACTGTGAATCGTTGGGCTAATGCCTACCCCTTGGCCAACTTCTCCGAGGCATCTATGGC
 ATCAAAGGATGTTTCTGTTTGGTGTAGTAATGACTATTTGGGCATAAGCAGACACCCTCGTGTCTTGACG
 GCCATAGAGGAGACCCTGAAGAATCATGGAGCTGGAGCTGGGGGCACTCGCAATATCTCAGGTACCGCA
 AGTTTTATGTGGAGCTTGAACAGGAGCTGGCTGAACACAGAAAGACTCAGCTCTGCTCTTCTCCTC
 CTGTTTTGTGGCCAATGATTCTACTCTCTTACTGCGCAAGCTTCTGCCAGGGTGTGAGATCTACTCA
 GATGCAGGCAATCATGCCTCCATGATCCAAGGCATTGCAACAGTGGTGCAGCCAAGTTTGTCTTCAGAC
 ACAATGACCCAGGCCACCTGAAGAACTTCTCGAGAAGTCTGATCCCAAGACACCAAAAATTGTGGCTTT
 TGAGACTGTTTCAATCCATGGATGGTGCATCTGTCTCTGGAGGAATTGTGTGATGTGGCCACCAGTAT
 GGAGCCCTGACCTTCGTAGATGAAGTCCATGCTGTAGGACTGTATGGAGCCGGGGTGCAGGTATCGGGG
 AGCGTGATGGAATTATGCACAAGCTTGACATCATCTCTGGAACCTTGGCAAGGCCTTGGTTGCGTCGG
 TGGCTATATAGCCAGCACTCGGGACTTGGTGGACATGGTGCCTCTACGCTGCAGGCTTCATCTTTACC
 ACTTCACTGCCTCCCATGGTGTCTCTGGGGCTCTAGAATCTGTGCGCCTACTCAAGGGAGAGGAGGTC
 AAGCCCTGAGGCGGGCACACCAGCGCAATGTCAAACACATGCGCCAGCTGCTAATGGACAGGGGCTTTCC
 TGTATCCCTGTCCAGCCACATCATCCCATCAGGGTGGGTAATGCAGCACTCAACAGCAAGATCTGT
 GATCTTCTGCTCTCAAGCACAGCATCTATGTGCAGGCCATCACTACCAACTGTGCCTCGTGGTGGAG
 AGCTACTGCGCTTGGCCCCCTCCCCCACCACAGCCCTCAGATGATGGAAAATTGTGGAGAAGCTGCT
 GCTGGCCTGGACTGAGGTGGGGCTGCCCTCCAAGATGTGTCTGTGGCTGCATGCAACTTCTGTCATCGT
 CCTGTGCACTTTGAACTTATGAGCGAGTGGGAGCGATCCTACTTTGGGAACATGGGACCCCAATATGTTA
 CCACCTATGCT

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>MG222911 representing NM_009653
 Red=Cloning site Green=Tags(s)

MVAAMLLRSCPVL SQGPTGLLGKVAKYQFLFSIGRCPILATQGPTCSQIHLKATKAGDSPSWAKSHC
 PFMLSELQDRKSKIVQRAAPEVQEDVKTFKTDLLSTMDSTTRSHSFPSFQEPQTEGAVPHLIQNNMTGS
 QAFGYDQFFRDKIMEKKQDHTYRVFKTVNRWANAYPFAQHFSEASMASKDVSVWCSNDYLGISRHPVLQ
 AIEETLKNHGAGAGGTRNISGTSKFHVELEQELAEHQKDSALLFSSCFVANDSTLFTLAKLLPGCEIYS
 DAGNHASMIQIRNSGAAKFVFRHNDPGLKLLLEKSDPKTPKIVAFETVHSMGDAICPLEELCDVAHQY
 GALTFVDEVHAVGLYGARGAGIGERDGMHKLDIISGTLGKAFGCVGGYIASTRDLVDMVRSYAAGFI
 TSLPPMVL SGALESVRLKGEEQALRRAHQNRNVKHMRLQMDRGFPVIPCPSHIPIRVGNAALNSKIC
 DLLLSKHSIYVQAINYPTVPRGEELRLAPSPHHSPQMMENFVEKLLLAWTEVGLPLQDVSVAACNFCHR
 PVHFELMSEWERSYFGNMGPQYVTTYA

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

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:	<ol style="list-style-type: none">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_009653.3 , NP_033783.1
RefSeq Size:	1983 bp
RefSeq ORF:	1764 bp
Locus ID:	11656
UniProt ID:	P08680
Cytogenetics:	X 68.46 cM