

Product datasheet for **MG224009**

Zyx (NM_011777) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Zyx (NM_011777) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Zyx
Synonyms:	9530098H06Rik; R75157
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG224009 representing NM_011777
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCGGCCCGCCCGCCCTCCCGCATCTCCGTCTCCGTCTCGGCCCGCGTTTTACGCCCGCAGA
 AGAAGTTCGCCCGGTTGTGCCCCAAAGCCAAAGTGAATCCTTTCCGGCCTGGGGACAGCGAGCCTCC
 TGTAGCAGCCGGGGCCAAAGAGCGCAGATGGGTGGGTGGGCGAGATCCACCACCACCCCGGAAGAC
 TTTCTTTGCCCCCTCTCCCTTATTGGGGAGGGCGACGACTCAGAGGGTGCCTGGGAGGTGCCTTCC
 CACCTCCACCTCCCGATGATCGAGGAACATTCCCCCTGCTCCTCTGGAGGAGGACATTTCCCTC
 CCCTCCACCTCCACTGGAGGAGGAGGGAGGCCCTGAGGCCCTACCCAGCTCCACCCGACGCCAGGGAG
 AAAGTGTGCAATTGACCTGGAGATTGACTCTGTCTCTACTGCTGGACGACATGACCAAGAACGATC
 CCTTCAAAGCCCGGTATCATCCGGATATGTACCCACCAGTTGCCACTCCATTTGTTCCCAAGCCTAG
 TACCAAACCTGCCCTGGGGCACAGCACCTTGCTCCTTGAAGACCCCTTCTAGCTCCAGCCACCA
 CCTCAGCCGACAGCCAAGCCTCAGGTCCAGCTCCATGTCCAGCCTCAGGCCAAGCCCATGTCCAACCC
 AGCCTGTGCTTCTGCTAATACACAGCCCGGGTCCCTTTCTCAGGCACCAACTCCAGCACCTAAGTT
 TGCTCCAGTGGCTCCTAAATTTACTCCCGTGGTTTCCAAGTTCAGCCCTGGTGTCCAAGTGGACCTGGG
 CCACAGCCCAATCAAAAAATGGTGCCTCCGGATGCTCCTTCTTGTGAGCACAGGCTCCCTCAGCCCC
 CTAGCTTACCTATGCTCAGCAGAAGGAGAAGCCCTAGTTCAAGAGAAGCAGCACCCACAGCCTCCACC
 AGCTCAAACCAAAACCAGGTACGCTCTCTGGAGGCCAGGCCCTTACCCCTGAAGGAGGTAGAGGAG
 TTGGCAGCTGACCCAGCAGCTGATGCAGGACATGGAACACCCCTCAGAGGCAGAGCGTGGCAGTGAATG
 AGTCTGTGGCAAATGCAATCAGCCACTGGCCCGTGCACAGCCTGCGGTTCTGTCAGTGGGACACTGTT
 CCACATACCTGCTTCACTTGCCATCAGTGTGACGAGCAGCTGCAGGGACAGCAGTTCTATAGCCTGGAG
 GGAGCACCATATTGTGAGGGCTGTACACCCGACACTTTGGAGAAGTGCAACACCTGTGGGACGCCATCA
 CTGACCGCATGCTGAGGGCCACTGGCAAAGCCTACCACCCACAGTGTTCACCTGTGTGCTGTGCGCTG
 TCCCTGGAGGGCACCTCCTTATTGTGGACCAGGCCAATCAGCCCACTGTGTCCCTGACTATCACAAG
 CAATACGCTCAAAGTGTCCGTCTGCTCGGAGCCAATCATGCCTGAGCCTGGCCGAGACGAGACTGTGC
 GAGTAGTGGCGCTGGATAAAGACTTTCATATGAAGTGTACAAGTGTGAGGACTGTGGGAAACCTCTGTC
 CATTGAGGCAGATGACAACGGCTGTTCCCTCTGGATGGCCACGTCCTTTGTGCGAAGTGCCACTCCGCT
 AGAGCCAGACC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG224009 representing NM_011777
 Red=Cloning site Green=Tags(s)

MAAPRPPPAISVSVSAPAFYAPQKKFAPVVAPKPKVNPFRPGDSEPPVAAGAQRAMGRVGEIPPPPPED
 FPLPPPLIGEGDDESEGALGGAFPPPPPMIEEPFPPAPLEEDIFPSPPPPLEEEGGPEAPTQLPPQPRE
 KVCSIDLEIDSLSSLLDDMTKNDFKARVSSGYVPPVATPFVVKPSTKPAPGGTAPLPPWKTSSSQPP
 PQPQAKPQVQLHVQPQAKPHVQPQPVSSANTQPRGPLSQAPTPAPKFAPVAPKFTPVVSKFSPGAPSGPG
 PQPNQKMVPPDAPSSVSTGSPQPPSFTYAQQKEKPLVQEKQHPQPPPAQNQNQVRSPPGPGPLTLKEVEE
 LEQLTQQLMQDMEHPQRQSVAVNESCGKCNQPLARAQPAVRALGQLFHITCFTCHQCQQQLQGQQFYSLE
 GAPYCEGCYTDLEKNTCGQPIITDRMLRATGKAYHPQCFVCVACPLEGTSFIVDQANQPHCVDPDYHK
 QYAPRCSVCSEPIPEPGRDETVRVVALDKNFHMCKYKCEDCGKPLSIEADDNGCFPLDGHVLCRKCHSA
 RAQT

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_011777

ORF Size: 1692 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_011777.3](#), [NP_035907.1](#)

RefSeq Size: 2454 bp

RefSeq ORF: 1695 bp

Locus ID: 22793

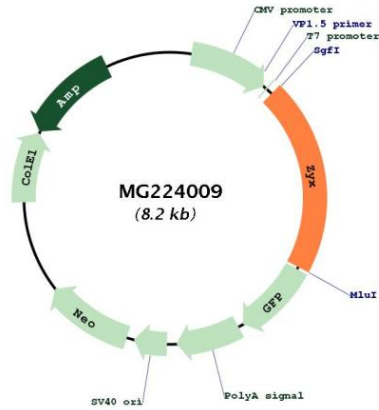
UniProt ID: [Q62523](#)

Cytogenetics: 6 B2.1

Gene Summary:

Adhesion plaque protein. Binds alpha-actinin and the CRP protein. Important for targeting TES and ENA/VASP family members to focal adhesions and for the formation of actin-rich structures. May be a component of a signal transduction pathway that mediates adhesion-stimulated changes in gene expression (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG224009