

Product datasheet for **SC329231**

AFF2 (NM_001170628) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	AFF2 (NM_001170628) Human Untagged Clone
Tag:	Tag Free
Symbol:	AFF2
Synonyms:	FMR2; FMR2P; FRAXE; MRX2; OX19; XLID109
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >NCBI ORF sequence for NM_001170628, the custom clone sequence may differ by one or more nucleotides

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ATGAAGTTCAAAAGGAGGCACCAAGCATTTCCTTCCTTCAAGATGAAGGTAAGCCTT
CCCAGTGATCAAAGCTGTGTTGAAGAAATCTTGCAGGAAATCGCAGCATCTGACCCAGGA
TTCACCTTACAAAAGTGAATGACCCAACCACCAGAGCTTCTACAAAGTCAGTGTCTTTC
AAATCGATGCTTGAGGATGACCTGAAGCTGAGCAGTGAAGATGACCTTGAGCCTGTG
AAGACCTTGACCACTCAGTGCACCTGCCACTGAGCTCTACCAGGCTGTTGAAAAGGCAAAA
CCTAGGAATAATCCTGTGAACCCACCCTTGCCACTCCCCAGCCCCACCTGCAGTGCAA
GCCAGCGGGGTTCTGGCAGCTCCAGCGAATCGGAGAGCAGCTCTGAGTCGGATTGAGAC
ACTGAAAGTAGCACCCTGACAGCGAATCTAATGAGGCACCTCGTGTGGCAACTCCAGAG
CCTGAGCCACCCTCAACCAACAAGTGGCAACTGGATAAATGGCTTAACAAAGTGACATCC
CAGAACAAGTCTTTTATTTGTGGCCAAAATGAAACACCCATGGAGACTATTTCTCTGCCT
CCTCCAATCATCAACCAATGGAAGTCCAGATGAAAGTGAAGACGAATGCCAGTCAGGTC
CCAGCTGAACCAAGAAAGGCCTCTCCTCAGTCTCATTAGGGAGAAAGCCCGTCCACGG
CCCCTCAGAAAATCCAGAAAACAAGGCTTTGAAAGCATAAGTTGTCAACAAGTGTGAG
ACAGTGTCTCAAAGGACAATTGGGAAAAAACAGCCAAAAAAGTTGAGAAGAACACCAGC
ACTGACGAGTTTACCTGGCCCAAACCAATATTACCAGCAGCACTCCCAAAGAAAAAGAA
AGTGTGGAGCTTCATGACCCACCAAGAGGCCGCAACAAAGCCACTGCCCAAAACCAGCC
CCTAGGAAAGAACCAAGACCTAACATCCCTTTGGCTCCCGAGAAGAAGAAGTACAGAGGG
CCTGGCAAGATTGTGCCAAAGTCTCGGGAATTCATTGAAACAGATTATCTACATCTGAC
TCCAACACAGATCAGGAAGAGACCCTGCAAAATCAAAGTCTGCCTCCGTGCATTATTTCT
GGAGGTAATACTGCCAAATCCAAGGAAATCTGTGGTGCCAGCCTGACCCTCAGCACCTTA
ATGAGTAGCAGTGGCAGCAACAACAATATCCATCAGTAAATGAAGAGCCAACATTTTCA
CCTATTCCTGTCAATGCAAACTGAAATCCTGTCCCCTCTGCGAGATCATGAGAACCCTGAAA
AACCTCTGGGTGAAGATTGACCTTGACTTACTCTCTAGAGTACCTGGCCACAGCTCACTC
CATGCAGCACCTGCCAAGCCAGACCACAAGGAGACTGCCAAAAACCAAGCGTCAGACA
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GTTGCAGAGAAGATCCCTGAGAAGAAGCAGCGCCTGGAGGAGGCCACAATATCTGCTTG
CTCCCTCCTTGATCTCACCAGCCCCACCCACAAGCCTCCCAACTAGAGAAAATAAT
TCATCCAGGAGAGCAAAATAGAAGAAAGGAAGAAAAACTATTTCTCCTCCACTTTCCCA
CTGCCAGAGGACCCTCCACGCCGAGAAATGTCAGTGGCAATAATGGTCCCTTTGGTCAA
GACAAAAACATCGCCATGACTGGACAAATCACATCTACCAAACTAAGAGAAGTGAAGGC
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TCCTCTGCCACCATCACTGTCAACCAACTGCTATTGCCACTGCTACTGTCACTGCTACT
GCCATTGTCAACCACCTGTACAGCTACTGCCACCGCCACGGCCACCACCACAACACTACT
ACCACTACCAATTCACCATCACCTCTACCATCACTACTGGCCTCATGGATAGCAGTCAC
CTGGAGATGACGTCCTGGGCGGCTCTGCCCTTCTATCCAGCAGCAGCACTAATGTCCGG
AGACCAAGCTCACTTTTGTGACTCGGTTCACAATGCTGATTATTACATGCAAGAAGCT
AAGAAGCTGAAGCACAAGCTGATGCACTGTTGAGAAAATTTGGCAAAGCTGTGAATTAT
GCTGATGCCGCCCTCTCCTTCACTGAATGTGGCAATGCCATGGAACGCGACCCCTCTGGAA
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CTGAAGAATTTGCAAGTCCCTTGGCTTCGGATGGGGACAAAAGCTAGCAGTACTATGC
TACCGATGTTTACTCTCTATTTGAGAATGTTTAAGCTGAAGAAGGACCATGCTATG
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CCCTCTCCATGGGTAAGCAATGGAAAGAACTCCATCCCCAGTGTCTCAACAACGTC
TCCCCATCAACGCAATGGGAACTGTAACAATGGCCAGTCACCATTCCCAGCGCATT
CACCACATGGCTGCCAGCCAGTCAACATCACTAGCAATGTGTTACGGGGCTATGAACAC
TGGGATATGGCCGACAACTGACAAGAGAAAACAAGAATTCTTTGGTGTCTGGACAGC
CTGATGGGGCTCTGACCAGCAGCAGCATGACCAATCTTGTCCGCTACGTTCCGCAA
GGACTGTGTTGGCTGCGCATCGATGCCACTTGTGTAG

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Restriction Sites: Please inquire

ACCN:	NM_001170628
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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:	<u>NM_001170628.1</u> , <u>NP_001164099.1</u>
RefSeq Size:	12280 bp
RefSeq ORF:	2859 bp
Locus ID:	2334
UniProt ID:	<u>P51816</u>
Cytogenetics:	Xq28
Protein Families:	Druggable Genome
Gene Summary:	<p>This gene encodes a putative transcriptional activator that is a member of the AF4\FMR2 gene family. This gene is associated with the folate-sensitive fragile X E locus on chromosome X. A repeat polymorphism in the fragile X E locus results in silencing of this gene causing Fragile X E syndrome. Fragile X E syndrome is a form of nonsyndromic X-linked cognitive disability. In addition, this gene contains 6-25 GCC repeats that are expanded to >200 repeats in the disease state. Alternate splicing results in multiple transcript variants.[provided by RefSeq, Jul 2016]</p> <p>Transcript Variant: This variant (6) has multiple differences, and initiates translation at an alternate start codon, compared to variant 1. The encoded isoform (6) has a distinct N-terminus and is shorter than isoform 1. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.</p>