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Product datasheet for SC329329

AFF2 (NM_001169122) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	AFF2 (NM_001169122) Human Untagged Clone
Tag:	Tag Free
Symbol:	AFF2
Synonyms:	FMR2; FMR2P; FRAXE; MRX2; OX19; XLID109
Mammalian Cell Selection:	None
Vector:	pCMV6-XL5
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF:

>NCBI ORF sequence for NM_001169122, the custom clone sequence may differ by one or more nucleotides

ATGGATCTATTCGACTTTTTCAGAGACTGGGACTTGGAGCAGCAGTGTCACTATGAACAA
GACCGTAGTGCACTTAAAAAAAGGGAATGGGAGCGGAGGAATCAAGAAGTCCAGCAAGAA
GACGATCTCTTTTCTTCAGGCTTTGATCTTTTTGGGGAGCCATACAAGACAAACAAAGGT
GATGCACTTGCCAACCGAGTCCAGAACACGCTTGGAAACTATGATGAAATGAAGAATTTG
CTAACTAACCATTCTAATCAGAATCACCTAGTGGGAATTCCAAAGAATTCTGTGCCCCAG
AATCCCAACAACAAAAATGAACCAAGCTTTTTTCCAGAACAAAAGAACAGAATAATTCCA
CCTCACCAGGATAATACCCATCCTTCAGCACCAATGCCTCCACCTTCTGTTGTGATACTG
AATTCAACTCTAATACACAGCAACAGAAAATCAAAACCTGAGTGGTCACGTGATAGTCAT
AACCCTAGCACTGTACTGGCAAGCCAGGCCAGTGGTCAGCCAAACAAGATGCAGACTTTG
ACACAGGACCAGTCTCAAGCCAAACTGGAAGACTTCTTTGTCTACCCAGCTGAACAGCCC
CAGATTGGAGAAGTTGAAGAGTCAAACCCATCTGCAAAGGAAGACAGTAACCCTAATTCT
AGTGGAGAAGATGCTTTCAAAGAAATCTTTCAATCCAATTCACCGGAAGAATCTGAATTC
GCCGTGCAAGCGCCTGGGTCTCCCCTAGTGGCTTCCTCTTTATTAGCTCCTAGCAGTGGC
CTTTCAGTTCAAAACTTCCCACCAGGGCTTTACTGCAAAACAAGCATGGGGCAGCAAAAG
CCAACTGCATACGTCAGACCCATGGATGGCCAGGACCAGGCACCGGACATCTCACCAACA
CTGAAACCTTCAATTGAATTTGAGAACAGCTTTGGGAATCTGTCATTTGGAACACTCTTG
GATGGAAAACCCAGTGCAGCCAGTTCAAAGACTAAACTGCCAAAGTTCACCATCCTCCAA
ACAAGTGAAGTAAGCCTTCCCAGTGATCCAAGCTGTGTTGAAGAAATCTTGCGGGAATCG
CAGCATCTGACCCCAGGATTCACCTTACAAAAGTGGAATGACCCAACCACCAGAGCTTCT
ACAAAGTCAGTGTCTTTCAAATCGATGCTTGAGGATGACCTGAAGCTGAGCAGTGATGAA
GATGACCTTGAGCCTGTGAAGACCTTGACCACTCAGTGCACTGCCACTGAGCTCTACCAG
GCTGTTGAAAAGGCAAAACCTAGGAATAATCCTGTGAACCCACCCTTGGCCACTCCCCAG
CCCCCACCTGCAGTGCAAGCCAGCGGGGGTTCTGGCAGCTCCAGCGAATCGGAGAGCAGC
TCTGAGTCGGATTCAGACACTGAAAGTAGCACCACTGACAGCGAATCTAATGAGGCACCT
CGTGTGGCAACTCCAGAGCCTGAGCCACCCTCAACCAACAAGTGGCAACTGGATAAATGG

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CTTAACAAAGTGACATCCCAGAACAAGTCTTTTATTTGTGGCCAAAATGAAACACCCATG
GAGACTATTTCTCTGCCTCCTCCAATCATCCAACCAATGGAAGTCCAGATGAAAGTGAAG
ACGAATGCCAGTCAGGTCCCAGCTGAACCCAAAGAAAGGCCTCTCCTCAGTCTCATTAGG
GAGAAAGCCCGTCCACGGCCCACTCAGAAAATTCCAGAAACAAAGGCTTTGAAGCATAAG
TTGTCAACAACTAGTGAGACAGTGTCTCAAAGGACAATTGGGAAAAAACAGCCCAAAAAA
GTTGAGAAGAACACCAGCACTGACGAGTTTACCTGGCCCAAACCAAATATTACCAGCAGC
ACTCCCAAAGAAAAAGAAAGTGTGGAGCTTCATGACCCACCAAGAGGCCGCAACAAAGCC
ACTGCCCACAAACCAGCCCCTAGGAAAGAACCAAGACCTAACATCCCTTTGGCTCCCGAG
AAGAAGAAGTACAGAGGGCCTGGCAAGATTGTGCCAAAGTCTCGGGAATTCATTGAAACA
GATTCATCTACATCTGACTCCAACACAGATCAGGAAGAGACCCTGCAAATCAAAGTCCTG
CCTCCGTGCATTATTTCTGGAGGTAATACTGCCAAATCCAAGGAAATCTGTGGTGCCAGC
CTGACCCTCAGCACCTTAATGAGTAGCAGTGGCAGCAACAACAACTTATCCATCAGTAAT
GAAGAGCCAACATTTTCACCTATTCCTGTCATGCAAACTGAAATCCTGTCCCCTCTGCGA
GATCATGAGAACCTGAAAAACCTCTGGGTGAAGATTGACCTTGACTTACTCTCTAGAGTA
CCTGGCCACAGCTCACTCCATGCAGCACCTGCCAAGCCAGACCACAAGGAGACTGCCACA
AAACCCAAGCGTCAGACAGCTGTCACAGCTGTGGAGAAACCAGCCCCTAAGGGCAAACGT
AAGCACAAGCCAATAGAAGTTGCAGAGAAGATCCCTGAGAAGAAGCAGCGCCTGGAGGAG
GCCACAACTATCTGCTTGCTCCCTCCTTGCATCTCACCAGCCCCACCCCACAAGCCTCCC
AACACTAGAGAAAATAATTCATCCAGGAGAGCAAATAGAAGAAAGGAAGAAAAACTATTT
CCTCCTCCACTTTCCCCACTGCCAGAGGACCCTCCACGCCGCAGAAATGTCAGTGGCAAT
AATGGTCCCTTTGGTCAAGACAAAAACATCGCCATGACTGGACAAATCACATCTACCAAA
CCTAAGAGAACTGAAGGCAAATTCTGTGCTACTTTCAAAGGGATATCGGAGGGAGACACT
CCAAAAAAGGCATCCTCTGCCACCATCACTGTCACCAATACTGCTATTGCCACTGCTACT
GTCACTGCTACTGCCATTGTCACCACCACTGTCACAGCTACTGCCACCGCCACGGCCACC
ACCACAACTACTACCACTACCATTTCCACCATCACCTCTACCATCACTACTGGCCTCATG
GATAGCAGTCACCTGGAGATGACGTCCTGGGCGGCTCTGCCCCTTCTATCCAGCAGCAGC
ACTAATGTCCGGAGACCCAAGCTCACTTTTGATGACTCGGTTCACAATGCTGATTATTAC
ATGCAAGAAGCTAAGAAGCTGAAGCACAAAGCTGATGCACTGTTCGAGAAATTTGGCAAA
GCTGTGAATTATGCTGATGCCGCCCTCTCCTTCACTGAATGTGGCAATGCCATGGAACGC
GACCCTCTGGAAGCAAAGTCCCCATACACCATGTACTCTGAGACTGTGGAGCTCCTCAGG
TATGCAATGAGGCTGAAGAACTTTGCAAGTCCCTTGGCTTCGGATGGGGACAAAAAGCTA
GCAGTACTATGCTACCGATGTTTATCACTCCTCTATTTGAGAATGTTTAAGCTGAAGAAG
GACCATGCTATGAAGTACTCCAGATCACTGATGGAATATTTTAAGCAAAATGCTTCAAAA
GTCGCACAGATACCCTCTCCATGGGTAAGCAATGGAAAGAACACTCCATCCCCAGTGTCT
CTCAACAACGTCTCCCCCATCAACGCAATGGGGAACTGTAACAATGGCCCAGTCACCATT
CCCCAGCGCATTCACCACATGGCTGCCAGCCACGTCAACATCACTAGCAATGTGTTACGG
GGCTATGAACACTGGGATATGGCCGACAAACTGACAAGAGAAAACAAAGAATTCTTTGGT
GATCTGGACACGCTGATGGGGCCTCTGACCCAGCACAGCAGCATGACCAATCTTGTCCGC
TACGTTCGCCAAGGACTGTGTTGGCTGCGCATCGATGCCCACTTGTTGTAG

Restriction Sites: Please inquire

ACCN: NM_001169122

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:	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_001169122.1, NP_001162593.1
RefSeq Size:	13641 bp
RefSeq ORF:	3831 bp
Locus ID:	2334
UniProt ID:	P51816
Cytogenetics:	Xq28
Protein Families:	Druggable Genome
Gene Summary:	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] Transcript Variant: This variant (2) has multiple differences, compared to variant 1. The encoded isoform (2) 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.