

Product datasheet for **SC314414**

KAL1 (ANOS1) (NM_000216) Human Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: KAL1 (ANOS1) (NM_000216) Human Untagged Clone
Tag: Tag Free
Symbol: KAL1
Synonyms: ADMLX; HH1; HHA; KAL; KAL1; KALIG-1; KMS; WFDC19
Mammalian Cell Selection: None
Vector: pCMV6-XL4
E. coli Selection: Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene sequence for NM_000216 edited
 GTGCAGCCCCGGCGCGGAGCAGGGAGCCTCGGCCCGCGCCCGGCCCTCGCCCTCGCCC
 TCGACCCGACGCCATGGTGCCCGGGTGCCCGGGCGGCTCTGACCCTCGCCTCTGGCT
 GCGCGCCTCCAGCGGCTGCTGGCGGCCGCCCGGCGCGGCTGCTGCGCGGCGGCTGGA
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 GCAGATCACTCGCATCTCCGCTTCTTCCAGCACTTCCAGAACAATGGTTCCTGGTTTG
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 CCGGCTGGCCAACTCCACCGTCAACAGTGTGGAGTGTGACCGTCACTATAGTTTGGGA
 TCTCCCCGAGGAGCCGGACATCCCTGTGCATCATTACAAGTCTTTTGGAGCTGGATGGT
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 GGCATCATCTGGCATGACCCACGAAAATTACATAATTCTCAAGATCTGCATTTTCTCTG



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CAAGTATAAGGTGACTGTCCAACCAATACGGCCAAAAAGTCACTCCAAGGCAGAAGCTGT
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 CCTGGGCGAAGCAGGTATGTTCTTTCTAAGGTGCTAGCTAAGCCTGAGAACCTTTCTGC
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 CAGCATCTGAATTTCAAGTCTTAAAATTTCAAAAATTAATTTTCTTATTAGCTAT
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 CAAATACAGGTGGTTAATCTGACATACATTGCAGTTACATGCATTATTTTTATTTACAAC
 ATTTGCTCCTTAATGATGAATTTATCTGTGTTACCCTGTTTTTCTACCTGGAACCTCCATA
 GAATGATGTTTGCAAACCAACATGTGCTCTTTTCAGTCATTCACTGTTTTAATATGACAT
 GGTAGAGAAGATAAGGTTTATGGCAGGTAATTTTTTGTAAATGTGTATTACCGAAAAAAA
 AAAAAAAAAAAAAAAAAAAAAA

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_000216 unedited
 TAGCAATTGTATACGACTCACTATAGGCGGCCGCGAATTCGCACCAGCCGGAGTTGAAGG
 ATTGAACTTTCCGGCTCAGTCGCGGGCGGCTGCCTGGTCTCAGCAGTGCAGCCCCGGCGC
 GGAGCAGGGAGCCTCGGCCCGCGCCCGGCGCCCTCGCCCTCGACCCGACGCCAT
 GGTGCCCGGGGTGCCCGCGCGGTCTGACCCTGCTGCTGCTGGCTGGCGGCTCCAGCGG
 CTGCCTGGCGGGCCCGCCCGCGCGGCTGCTGCGCGGGCTGGACGAGTCGCTGTCTGC
 CGGGAGCGTCCAGCGCGCTCGCTGCGCCTCCAGGTGCCTGAGCCTGCAGATCACTCGCAT
 CTCGCGCTTCTCCAGCACTTCCAGAACAATGGTTCCTGGTTTGGTGCCAGAATCACAA
 GCAATGTTCTAAGTGCCTGGAGCCCTGCAAGGAATCAGGGGACCTGAGGAAACACCACTG
 CCAAAGCTTTTGTGAGCCTCTCTCCCAAGAAGAGCTACGAATGCTTGACCAGCTGTGA
 GTTCTCAATACATCCTGTTGGTGAAGCAGGGGACTGTCCGGCTCTGAGAAAGCCAG
 TGGATTTGCGGCCGCTGTGTTGAAAGCTGCGAAGTTGACAATGAGTGTCTGGGGTGAA
 GAAATGTTGTTGCAATGGGTGTGGACACACCTGTCAAGTACCAAGACTCTGTACAAAGG
 TGTCGCCCTGAAGCCAGAAAAGAGTTACGATTTACAGAAGTGCAGTCTGGACAGCTGGA
 GGTAAAGTGGTCTCGAAATCAATATTTCTATTGAGCCTGTGATCTATGTGGTACAAAAG
 AAGATGGAATATGGAATCCATNCTAGCGAAGATGACGCACTCACTGGCAGACAGTGGNCC
 CAGACACAGACNAGCGAGGTCACTGACTGACATAAGACCAGCCGATGGTACANNTTNCAG
 TGGCTGCTGTGAATTGCATGGAACN

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_000216 unedited
 NNNNGGTTTGTACTAAGNACCGCGNCCGCAANCTANNGATCGATTTTTTTTTTTTTTTTT
 TTTTTTTTTTTTTTTTTTCGGTAAAACACATTACAAAAATACCTGCCATAAACCTTATC
 TTCTCTACCATGTCATATTAACACAGTGAATGACTGAAAAGAGCAGATGTTGGTTTGCAA
 ACATCATTCTATGGAGTTCAGGTAGAAAAACAGGGTAACACAGATAAATTCATCATTAA
 GGAGCAAATGTTGTAATAAAAAAATGCATGTAAGTCAATGTATGTCAAATTAACCAC
 CTGATTTGATGACAATTTTTGATGAGCTCAATTTTTAAACAGTCAATACTATTACT
 GGATATTTTTCTCACATTAGAGAAATGAATCTAATTTCAATAAAACATATTACAGAAT
 TAGGCACCAAAACTATGTTTGTAAAAAGCATAGATTTTATTCTTTATTAAGCAATCAC
 GTTTTTAAAATTCAAAAATTATAACTATATTTTTGATCATTGTAATAACTGGAGCTT
 ATTAATAATCCATAAGAGAAACACATGTTTTTTATTAGCCCATTAATAGCATTTTTCTTCC
 AATAACACCAATAAAATTTAAATTTTTATTTATATCAAATTAGAAGCCATAAGAGCT
 GCTTTAGATTTTTTAAGGGAGATGTAAGCTTCAGAACCCATCTGAACTAAAAATCTG
 TCCAATGTCTATTACCCAGACAAAAGAGCATGATTAATTTTTATAAATTAATTTATGTA
 AAAATTTAAAATTTTTGTATCTATGTAGAGACTCCCAGCATTTTAACTTTGCAACAGTA
 CAAAATTTGCTGGCATAAACATTGAATTTGTTTCATGACAGGTTCTGTAAAAGAAAATG
 GATAGCTAATAAG

Restriction Sites:

NotI-NotI

ACCN:

NM_000216

Insert Size:

5100 bp

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:	There is 2 nucleotide difference between the OriGene clone and the NCBI reference ORF. These result in the substitution of 1 aa and insertion of 2 aa.
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_000216.1, NP_000207.1</u>
RefSeq Size:	6314 bp
RefSeq ORF:	2043 bp
Locus ID:	3730
UniProt ID:	<u>P23352</u>
Cytogenetics:	Xp22.31
Domains:	FN3, WAP
Gene Summary:	Mutations in this gene cause the X-linked Kallmann syndrome. The encoded protein is similar in sequence to proteins known to function in neural cell adhesion and axonal migration. In addition, this cell surface protein is N-glycosylated and may have anti-protease activity. [provided by RefSeq, Jul 2008]