

Product datasheet for **SC110938**

Kallikrein 2 (KLK2) (NM_005551) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Kallikrein 2 (KLK2) (NM_005551) Human Untagged Clone
Tag:	Tag Free
Symbol:	Kallikrein 2
Synonyms:	hGK-1; hK2; KLK2A2
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC110938 sequence for NM_005551 edited (data generated by NextGen Sequencing)

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ATGTGGGACCTGGTTCTCTCCATCGCCTTGTCTGTGGGGTGCACCTGGTGCCTGCCCTC
ATCCAGTCTCGGATTGTGGGAGGCTGGGAGTGTGAGAAGCATTCCAACCCTGGCAGGTG
GCTGTGTACAGTCATGGATGGGCACACTGTGGGGTGTCTGGTGCACCCCAAGTGGGTG
CTCACAGCTGCCATTGCCTAAAGAAGAATAGCCAGGTCTGGCTGGTCCGGCACAACCTG
TTTGAGCCTGAAGACACAGGCCAGAGGGTCCCTGTGAGCCACAGCTTCCACACCCGCTC
TACAATATGAGCCTTCTGAAGCATCAAAGCCTTAGACCAGATGAAGACTCCAGCCATGAC
CTCATGTGCTCCGCCTGTGAGCCTGCCAAGATCACAGATGTTGTGAAGTCTGGGC
CTGCCACCCAGGAGCCAGCACTGGGGACCACCTGCTACGCCTCAGGCTGGGCAGCATC
GAACCAGAGGAGTTCTTGCGCCCCAGGAGTCTTCAAGTGTGTGAGCCTCCATCTCCTGTCC
AATGACATGTGTGCTAGAGCTTACTCTGAGAAGGTGACAGAGTTCATGTTGTGTGCTGGG
CTCTGGACAGGTGGTAAAGACACTTGTGGGGGTGATTCTGGGGTCCACTTGTCTGTAAT
GGTGTGCTTCAAGGTATCACATCATGGGGCCCTGAGCCATGTGCCCTGCCTGAAAAGCCT
GCTGTGTACACCAAGGTGGTGCATTACCGGAAGTGGATCAAGGACACCATCGCAGCCAAC
CCCTGA

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Clone variation with respect to NM_005551.3



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5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_005551 unedited</p> <pre>TTCAGATTTTGTAAACGACTTCACTATAGGGCGGCCGCGATTTCGGCACCAGTGGACACC TGTGTCAGCATGTGGGACCTGGTTCTCTCCATCGCCTTGTCTGTGGGGTGCAGTGGTGCC GTGCCCTCATCCAGTCTCGGATTGTGGGAGGCTGGGAGTGTGAGAAGCATTCCCAACCC TGGCAGGTGGCTGTGTACAGTCTGGATGGGCACACTGTGGGGTGTCTGGTGCACCCC CAGTGGGTGCTCACAGCTGCCATTGCCTAAAGAAGAATAGCCAGGTCTGGCTGGTCCG CACAACTGTTTTGAGCCTGAAGACACAGGCCAGAGGGTCCCTGTCAGCCACAGTTCCTCA CACCCGCTTACAATATGAGCCTTCTGAAGCATCAAAGCCTTAGACCAGATGAAGACTCC AGCCATGACCTCATGCTGCTCCGCTGTGAGAGCCTGCCAAGATCACAGATGTTGTGAAG GTCCTGGGCTGCCACCCAGGAGCCAGCACTGGGGACCACCTGTACGCCTCAGGCTGG GGCAGCATCGAACAGAGGAGTTCTTGGCCCCAGGAGTCTTCACTGTGTGAGCCTCCAT CTCCTGTCCAATGACATGTGTGCTAGAGCTTACTCTGAGAAGGTGACAGAGTTTCACTG TGTGCTGGGCTCTGGACAGGTGGTAAAGACACTGTGGGGGTGATTCTGGGGTCCACTT GTCTGTAATGGTGTGCTCAAAGTATCACATCATGGNGCCCTGAGCCATGTGCCCTGCC GAAAACCTGCTGTGTACACCAAGGTGGTGCATTACCGAAGTTGATCAGGACCCATCGCA GCCACCCCTGATGCCCTGTCCACCCCTACCTTAGTAATTATAGTCCACCTCAGTT CTGGCATCACTTGGCCTTCTGGAGCTGACACCTGAATTTGAAGTACTGCGCGAGCTTA G</pre>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_005551 unedited</p> <pre>AATTCACCTATGNACCGCGCCGCAATNCTANGATCGATTTTTTTTTTTTTTTTTTTT AGGTCTGAAAACAAGATCAGTTTTATTTGCTGCCCCAGTATCTGTAACCAGGAGTGCCAC AAAATCTTGCCAGATATGTCCACACCCACTGGGAAAGGCTCCACCTGGCTACTTCCTC TATCAGCTGGGTGAGCTGCATTCCACAAGTTCTCAGCCTAATGAGTTTCACTACCTGCC AGTCTCAAACTTAGTAAAGCAAGACCATGACATTCACCCACGGAATCAGAGTTTGCC CACCGTCTTGTTACTATAAAGCCTGCCTCTAACAGTCTTGTCTTTCACACCAATCCCG AGCGCATCCCCATGTCATCCTGCATGGTGTGCAGCGTCTCCTGCTCTGGGCTGTGAAT CTCTATGGCTAAGAACTGTTGATCTCATATCTCCGGTGTATGTGTGGGGTGTCAACC ATCTTCATAACCCAGGGTGGTAAATCCCTCCCTACCAATGGTGTGAAAAGAAGGCAAT AAAACAATGATTGAATGCTCTTTGGGCTCAGTATCATTCTCAATGTGCCCTATTTCTG GATTCCTTTTGTAGGGATAGCCCCATAGACCACCTGATCACAAAGACCAAAACCAATCCC CAGGGGGGCTTCTCATCTCTCCCTTCCCTCATCCCTGTACAATAAAAGGTTGACTC AGCAGCCCTGCACTGCTCAAAGCCTGTACATCCCAAGTAAAGGGCTCACCTTGAATAAC TCTTGGGAGATGACATTTGATTCCTTGGCATGTTCTGCCCAAGTGCCTTGATATACTTGG GGCCTTGGCCATGCCAGACCCTTATGCTAAAGAGGGATTTGTGATGAATCCTGTTTTG TACTC</pre>
Restriction Sites:	NotI-NotI
ACCN:	NM_005551
Insert Size:	2800 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).
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_005551.3](#), [NP_005542.1](#)

RefSeq Size: 2855 bp

RefSeq ORF: 786 bp

Locus ID: 3817

UniProt ID: [P20151](#)

Cytogenetics: 19q13.33

Domains: Tryp_SPC

Protein Families: Druggable Genome, Protease

Gene Summary: This gene encodes a member of the grandular kallikrein protein family. Kallikreins are a subgroup of serine proteases that are clustered on chromosome 19. Members of this family are involved in a diverse array of biological functions. The protein encoded by this gene is a highly active trypsin-like serine protease that selectively cleaves at arginine residues. This protein is primarily expressed in prostatic tissue and is responsible for cleaving pro-prostate-specific antigen into its enzymatically active form. This gene is highly expressed in prostate tumor cells and may be a prognostic maker for prostate cancer risk. Alternate splicing results in both coding and non-coding transcript variants. [provided by RefSeq, Jan 2012]
Transcript Variant: This variant (1) encodes the longest 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.