OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for SC330086

Kallikrein 7 (KLK7) (NM_001243126) Human Untagged Clone

Product data:

Product Type: Expression Plasmids

Product Name: Kallikrein 7 (KLK7) (NM_001243126) Human Untagged Clone

Tag: Tag Free

Symbol: KLK7

Synonyms: hK7; PRSS6; SCCE

Vector: pCMV6-Entry (PS100001)

Fully Sequenced ORF:

>SC330086 representing NM_001243126.
Blue=Insert sequence Red=Cloning site Green=Tag(s)

ATGAAGATTTTGGAGCCCAGCTGTGTGCCAGCCCAAGTCGGAACTTGGATCACATCAGATCCTCTCGAG
CTCCAGCAGGAGAGGCCCTTCCTCGCCTGGCAGCCCCTGAGCGGCTCAGCAGGGCACCATGGCAAGATC
CCTTCTCCTGCCCCTGCAGATCTTACTGCTATCCTTAGCCTTGGAAACTGCAGGAGAAGAAGTGAGTAC
ACCGTGCACCTGGGCAGTGATACGCTGGGCGACAGGAGAGCTCAGAGGATCAAGGCCTCGAAGTCATTC
CGCCACCCCGGCTACTCCACACAGACCCATGTTAATGACCTCATGCTCGTGAAGCTCAATAGCCAGGCC
AGGCTGTCATCCATGGTGAAGAAAGTCAGGCTGCCCTCCCGCTGCGAACCCCCTGGAACCACCTGTACT
GTCTCCGGCTGGGGCACTACCACGAGCCCAGATGTGACCTTTCCCTCTGACCTCATGTGCGTGGATGTC
AAGCTCATCTCCCCCCAGGACTGCACGAAGGTTTACAAGGACTTACTGGAAAATTCCATGCTGTGCGCT
GGCATCCCCGACTCCAAGAAAAACGCCTGCAATGGTGACTCAGGGGGACCGTTGGTGTGCAGAGGTACC
CTGCAAGGTCTGGTGTCCTGGGGAACTTTCCCTTGCGGCCAACCCAATGACCCAGGAGTCTACACTCAA
GTGTGCAAGTTCACCAAGTGGATAAATGACACCATGAAAAAGCATCGCTAA

Restriction Sites: SgfI-MluI

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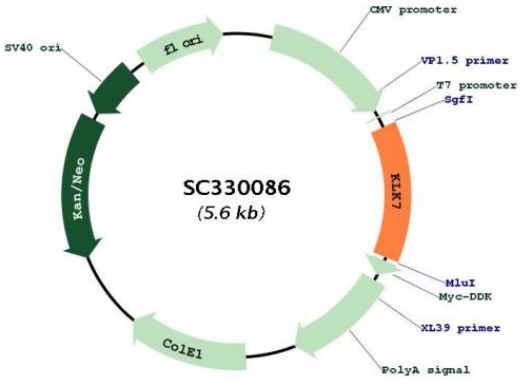
Plasmid Map:



ACCN:	NM_001243126
Insert Size:	741 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_001243126.1
RefSeq Size:	1956 bp
RefSeq ORF:	741 bp
Locus ID:	5650
UniProt ID:	P49862
Cytogenetics:	19q13.41
Protein Families:	Druggable Genome, Secreted Protein
MW:	26.9 kDa
Gene Summary:	This gene encodes a member of the kallikrein subfamily of serine proteases. These enzymes have diverse physiological functions and many kallikrein genes are biomarkers for cancer. The encoded protein has chymotrypsin-like activity and plays a role in the proteolysis of intercellular cohesive structures that precedes desquamation, the shedding of the outermost layer of the epidermis. The encoded protein may play a role in cancer invasion and metastasis, and increased expression of this gene is associated with unfavorable prognosis and progression of several types of cancer. Polymorphisms in this gene may play a role in the development of atopic dermatitis. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene, which is one of fifteen kallikrein subfamily members located in a gene cluster on chromosome 19. [provided by RefSeq, May 2011] Transcript Variant: This variant (4) uses an alternate upstream start codon compared to variant 1. The 5' CDS is in a different reading frame, but this variant lacks an exon in the coding region which results in a frameshift and in-frame 3' CDS, compared to variant 1. The encoded isoform (3) has a unique 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.