

## Product datasheet for **SC334053**

### Kallikrein 4 (KLK4) (NM\_001302961) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Kallikrein 4 (KLK4) (NM_001302961) Human Untagged Clone
Tag:	Tag Free
Symbol:	Kallikrein 4
Synonyms:	A12A1; ARM1; EMSP; EMSP1; kallikrein; KLK-L1; PRSS17; PSTS
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC334053 representing NM_001302961. Blue=Insert sequence Red=Cloning site Green=Tag(s)

GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGAATTCGTCGACTG  
 GATCCGGTACCGAGGAGATCTGCCGCC**CGATCGCC**  
 ATGGTGGAGGCCAGCCTCTCCGTACGGCACCCAGAGTACAACAGACCCTTGCTCGCTAACGACCTCATG  
 CTCATCAAGTTGGACGAATCCGTGTCCGAGTCTGACACCATCCGGAGCATCAGCATTGCTTCGCAGTGC  
 CCTACCGCGGGAACTCTGCCTCGTTTCTGGCTGGGGTCTGCTGGCGAACGGCAGAATGCCTACCGTG  
 CTGCAGTGCCTGAACGTGTCGGTGTCTGAGGAGTCTGCAGTAAGCTCTATGACCCGCTGTACCAC  
 CCCAGCATGTTCTGCGCCGGCGAGGGCAAGACCAGAAGGACTCTGCAACGGTGACTCTGGGGGGCCC  
 CTGATCTGCAACGGGTACTTGCAGGGCCTTGTGTCTTTTCGAAAAGCCCCGTGTGGCCAAGTTGGCGTG  
 CCAGGTGTCTACCAACCTCTGCAAATCACTGAGTGGATAGAGAAAACCGTCCAGGCCAGT**TAA**  
**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT  
 TACAAGGATGACGACGATAAGGTTAAACGGCCGGC

Restriction Sites:	Sgfl-MluI
ACCN:	NM_001302961
Insert Size:	480 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).


[View online »](#)

<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<u>NM_001302961.1</u>
<b>RefSeq Size:</b>	1359 bp
<b>RefSeq ORF:</b>	480 bp
<b>Locus ID:</b>	9622
<b>UniProt ID:</b>	<u>Q9Y5K2</u>
<b>Cytogenetics:</b>	19q13.41
<b>Protein Families:</b>	Druggable Genome, Secreted Protein, Transmembrane
<b>MW:</b>	16.9 kDa
<b>Gene Summary:</b>	<p>Kallikreins are a subgroup of serine proteases having diverse physiological functions. Growing evidence suggests that many kallikreins are implicated in carcinogenesis and some have potential as novel cancer and other disease biomarkers. This gene is one of the fifteen kallikrein subfamily members located in a cluster on chromosome 19. In some tissues its expression is hormonally regulated. The expression pattern of a similar mouse protein in murine developing teeth supports a role for the protein in the degradation of enamel proteins. Several transcript variants encoding different proteins have been found for this gene. [provided by RefSeq, Dec 2014]</p> <p>Transcript Variant: This variant (2) uses an alternate splice site in the 5' end, which results in a frameshift, compared to variant 1. It encodes isoform 2, which is shorter at the N-terminus, compared to isoform 1.</p>