

#### **OriGene Technologies, Inc.**

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# Product datasheet for RG236159

## Kallikrein 4 (KLK4) (NM\_001302961) Human Tagged ORF Clone

# **Product data:**

Product Type:	Expression Plasmids
Product Name:	Kallikrein 4 (KLK4) (NM_001302961) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Kallikrein 4
Synonyms:	Al2A1; ARM1; EMSP; EMSP1; kallikrein; KLK-L1; PRSS17; PSTS
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	<pre>&gt;RG236159 representing NM_001302961. Blue=ORF Red=Cloning site Green=Tag(s)</pre>
	GCTCGTTTAGTGAACCGTCAGAATTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCCGCCGCGCGATCGCCATGGTGGAGGCCAGCCTCTCCGTACGGCACCCAGAGTACAACAGACCCTTGCTCGCTAACGACCTCATGCTCATCAAGTTGGACGAATCCGTGTCCGAGTCTGACACCATCCGGAGCATCAGCATTGCTTCGCAGTGCCCTACCGCGGGGGAACTCTTGCCTCGTTTCTGGCTGGGGTCTGCTGGCGAACGGCAGAATGCCTACCGTGCTGCAGTGCGTGAACGTGTCGGGGTGTCTGAGGAGGTCTGCAGTAAGCTCTATGACCCGCTGTACCACCCCAGCATGTTCTGCGCCGGCGGAGGGCAAGACCAGAAGGACTCCTGCAACGGTGACTCTGGGGGGCCCCTGATCTGCAACGGGTACTTGCAGGGGCCAAGACCAGAAGGACTCCTGCAACGGTGACTCTGGGGGGCCCCTGATCTGCAACGGGTACTTGCAGGGCCTTGTGTCTTTCGGAAAAGCCCCGTGTGGCCAAGTTGGCGTGCCAGGTGTCTACACCAACCTCTGCAAATTCACTGAGTGGATAGAAAACCGTCCAGGCCAGTACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
Protein Sequence:	>Peptide sequence encoded by RG236159 Blue=ORF <mark>Red=</mark> Cloning site Green=Tag(s)
	MVEASLSVRHPEYNRPLLANDLMLIKLDESVSESDTIRSISIASQCPTAGNSCLVSGWGLLANGRMPTV LQCVNVSVVSEEVCSKLYDPLYHPSMFCAGGGQDQKDSCNGDSGGPLICNGYLQGLVSFGKAPCGQVGV PGVYTNLCKFTEWIEKTVQAS TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGGEGTPEQGRMTNKMKSTKGALTFSPYLLSHV MGYGFYHFGTYPSGYENPFLHAINNGGYTNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED SVIFTDKIIRSNATVEHLHPMGDNDLDGSFTRTFSLRDGGYYSSVVDSHMHFKSAIHPSILQNGGPMFA FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV
Restriction Sites:	Sgfl-Mlul



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#### **Cloning Scheme:**



ACCN:	NM_001302961
ORF Size:	484 bp
OTI Disclaimer:	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. <u>More info</u>
OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
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).
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>NM 001302961.1, NP 001289890.1</u>
RefSeq Size:	1359 bp
RefSeq ORF:	480 bp
Locus ID:	9622
UniProt ID:	<u>Q9Y5K2</u>
Cytogenetics:	19q13.41
Protein Families:	Druggable Genome, Secreted Protein, Transmembrane
MW:	17.4 kDa

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Gene Summary:Kallikreins are a subgroup of serine proteases having diverse physiological functions. Growing<br/>evidence suggests that many kallikreins are implicated in carcinogenesis and some have<br/>potential as novel cancer and other disease biomarkers. This gene is one of the fifteen<br/>kallikrein subfamily members located in a cluster on chromosome 19. In some tissues its<br/>expression is hormonally regulated. The expression pattern of a similar mouse protein in<br/>murine developing teeth supports a role for the protein in the degradation of enamel<br/>proteins. Several transcript variants encoding different proteins have been found for this<br/>gene. [provided by RefSeq, Dec 2014]

# **Product images:**



Circular map for RG236159

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