

Product datasheet for **RG221010**

Kallikrein 8 (KLK8) (NM_144505) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Kallikrein 8 (KLK8) (NM_144505) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	KLK8
Synonyms:	HNP; NP; NRPN; PRSS19; TADG14
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG221010 representing NM_144505 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGACGCCCCGACCTCGTGC GGCCAAGACGTGGATGTTCTGCTCTTGCTGGGGGAGCCTGGGCAG
CGTGTGGAAGCCTGGACCTCCTCACTAAGTTGTATGCGGAGAAGTTGCCGTGTGCCATTTGAACCCACA
GTGGCCTCCAGCCCTCGCACTGCCCCAGAGGGTGGCGATCCAACCCTCCTCCTGCTGCAGGACAC
TCCAGGGCACAGGAGGACAAGGTGCTGGGGGTCATGAGTGCCAACCCCATTCGCAGCCTTGGCAGGCGG
CCTTGTTCCAGGGCCAGCAACTACTCTGTGGCGGTGCCTTGAGGTGGCAACTGGTCCCTACAGCTGC
CCACTGTAAAAAACCGAAATACACAGTACGCCTGGGAGACCACAGCCTACAGAATAAAGATGGCCCCAGAG
CAAGAAATACCTGTGGTTCAGTCCATCCCACACCCCTGCTACAACAGCAGCGATGTGGAGGACCACAACC
ATGATCTGATGCTTCTTCAACTGCGTGACCAGGCATCCCTGGGGTCCAAAGTGAAGCCCATCAGCCTGGC
AGATCATTGCACCCAGCCTGGCCAGAAGTGACCGTCTCAGGCTGGGGCACTGTCACCAGTCCCCGAGAG
AATTTTCTGACTCTCAACTGTGCAGAAGTAAAAATCTTTCCCAGAAGAAGTGTGAGGATGCTTACC
CGGGCAGATCACAGATGGCATGGTCTGTGCAGGCAGCAGCAAAGGGCTGACACGTGCCAGGGCGATT
TGGAGGCCCTGGTGTGTGATGGTGCCTCCAGGGCATCACATCCTGGGGCTCAGACCCCTGTGGGAGG
TCCGACAAACCTGGCGTCTATACCAACATCTGCCGCTACCTGGACTGGATCAAGAAGATCATAGGCAGCA
AGGGC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG221010 representing NM_144505
 Red=Cloning site Green=Tags(s)

MGRPRPRAAKTWMFLLLLGGAWAACGSLDLLTKLYAENLPCVHLNPQWPSQPSHCPRGWRSNPLPPAAGH
 SRAQEDKVLGGHECQPHSQPWQAALFQGQQLCCGVLVGGNWVL TAAHCKKPKYT VRLGDHSLQNKDGP
 QEIPVVQSIHPHCYNSSDVEDHNHDLMLLQLRDQASLGSVKPISLADHCTQPGQKCTVSWGTVTSPRE
 NFPDTLNCAEVKIFPQKKCEDAYPGQITDGMVCAGSSKGADTCQGDSSGGLVCDGALQGITSWGSDPCGR
 SDKPGVYTNICRYLDWIKKIIGSKG

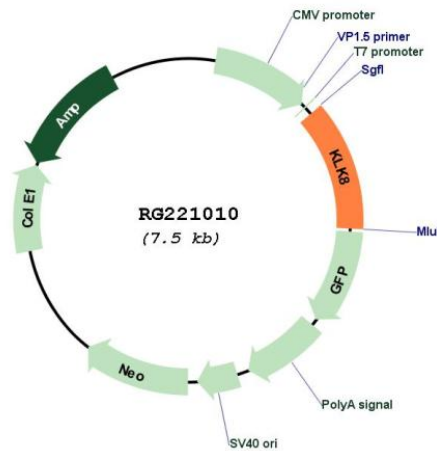
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_144505

ORF Size: 915 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. More info
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).
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:	NM_144505.3
RefSeq Size:	1148 bp
RefSeq ORF:	918 bp
Locus ID:	11202
UniProt ID:	O60259
Cytogenetics:	19q13.41
Protein Families:	Druggable Genome, Secreted Protein, Transmembrane
Gene Summary:	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 tandem in a gene cluster on chromosome 19. The encoded protein may be involved in proteolytic cascade in the skin and may serve as a biomarker for ovarian cancer. Alternate splicing of this gene results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Jul 2013]