

Product datasheet for **RR208604**

Tek (NM_001105737) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Tek (NM_001105737) Rat Tagged ORF Clone
Tag: Myc-DDK
Symbol: Tek
Synonyms: Tie-2; Tie2
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RR208604 representing NM_001105737
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGACTCTTTAGCCGGCTTAGTTCTCTGTGGAGTCAGCTTGCTCCTTTATGGACTAGTAGAAGGAGCCA
TGGACCTGATCTTGATCAATCCCTACCTCTTGTGTCTGATGCCGAAACATCCCTCACCTGCATTGCTTC
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 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR208604 representing NM_001105737
 Red=Cloning site Green=Tags(s)

MDSL AGLVLCGVSLLLYGLVEGAMDILINSLPLVSDAETSLTCIASGWHPEPITIGRDFEALMNQHQD
 PLEVTDVIREWAKKVVWKREKASKINGAYFCEGRVVRGQAIRIRTMKMRQQASFLPATLTMTVDRGDNVN
 ISFKKVLIKEEDAVIYKNGSFIHSVPRHEVPDILEVHLPHAQPDAGVYSARYIGGNLFTSAFTRLIVRR
 CEAQKWGPDCNRPTTCKNNGVCHEDTGEICPPGFMGRTEKACEPHTFGRTCKERCSESGECKSYVFC
 LPDPYGCSCATGWRGLQCNEACPYGHYPDCKLRCHCTNEEMCDRFQGLCSQGWQGLQCEKEGRPRMTP
 QIEDLPDHIEVNSGKFNPICKASGWPLPTSEEMTLVKPDGTVLQPNDFNHTDHFVSAIFTVNRILPPDSG
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 WQPIFTSSEDEFYVEVERWSQQRSDQQNIKVPGNLTSVLLNNLLPREQYSVRARVNTKAQGEWSEELRA
 WTLSDILPPQENIKITNITDYALVSWTIVDGYSSIIIRYKVGKNEQHDIDVKIKNATITQYQLKG
 LEPETTYHVDIFAENNIGSSNPAFSQEIRTLPAKDLGGKMLLIALGSAAGMTCITVLLAFLIMLQKLR
 ANVQRMAQAFQNVREEPAVQFNSGTLALNRKAKNNPDPTIYPVLDWNDIKFQDVI GEGNFQVVKARIK
 KDGLRMDAAIKRMKEYASKDDHRDFAGELEVLCKLGHPNIIINLLGACEHRGYLYLAIEYAPHGNLLDFL
 RKSRLVETDPAFIANSTASTLSSQQLLHFAADVARGMDYLSQKQFIHRDLAARNILVGENYIAKIADFG
 LSRGQEVYVKKTMGRLPVRWMAIESLNYSYTTNSDVWSYGVLLWEIVSLGGTPYCGMTCAELYEKLPQG
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TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

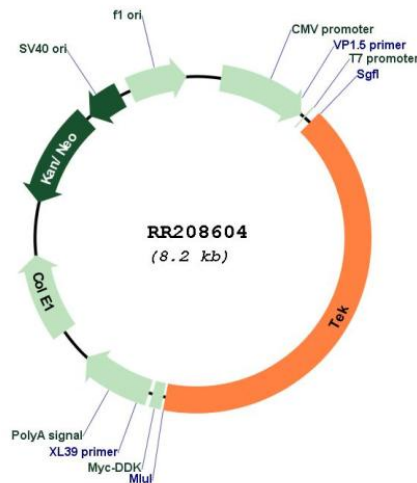
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001105737

ORF Size: 3360 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:	<u>NM_001105737.1, NP_001099207.1</u>
RefSeq Size:	4559 bp
RefSeq ORF:	3363 bp
Locus ID:	89804
Cytogenetics:	5q33
MW:	125.8 kDa
Gene Summary:	mediates development of embryonic vasculature; plays a role in tumors and skin wounds [RGD, Feb 2006]