

Product datasheet for **RR205279**

Ephb1 (NM_001104528) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Ephb1 (NM_001104528) Rat Tagged ORF Clone
Tag: Myc-DDK
Symbol: Ephb1
Synonyms: elk; Ephb2; Erk
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RR205279 representing NM_001104528
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCCCTGGATTGCCTGCTGTTCTCCTGGCATCTGCAGTGGCCGCGATGGAAGAAACATTGATGG
ACACAAGGACTGCCACTGCAGAGTTGGGATGGACGGCCAAACCCTGCCTCTGGGTGGGAAGAAGTCAGTGG
CTACGATGAAAACCTGAACACCATCCGTAATTACCAAGTGTGCAACGTCTTTGAACCCAACCAGAACAAC
TGGCTGCTTACCACCTTTATCAACAGACGGGGCGCCCATCGCATCTATACAGAGATGCGCTTCACGTGGA
GGGACTGCAGCAGCCTTCCAATGTCCCAGGCTCCTGCAAGAGACCTTCAACTTATACTACTATGAGAC
TGACTCTGTCAATGCCACCAAGAAGTCAGCCTTCTGGTCTGAAGCCCCCTACCTCAAAGTTGACACCATT
GCTGCAGATGAGAGCTTCTCCAGGTGGATTTGGGGGAAGGTTGATGAAGGTCAACACAGAAGTCAGGA
GCTTTGGGCTCTTACTAGGAATGGTTTTACCTCGCTTCCAGGATTATGGAGCCTGTATGTCTCTACT
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ACAGGAGCAGAGACACATCTCTGGTGATTGCTCGGGGCACATGCATCCCTAATGCAGAAGAAGTGGATG
TGCCCATAAAACCTACTGCAATGGAGATGGAGAGTGGATGGTGCCATTGGGCGCTGCACCTGTAAAGC
TGGCTATGAACCTGAGAACAGCGTGGCCTGCAAGGCTGTCTGCGGGAACCTTCAAGGCCAGCCAGGAA
GCTGAAGGCTGCTCCACTGCCCTCCAACAGCCGCTCCCTTCAGAGGCGTCTCCCATCTGCACCTGCC
GGACTGGCTATTACCGAGCAGACTTTGATCCCCAGAAGTGGCGTGCAGTGTCCCATCAGGCCCTCG
AAATGTCACTCCATTGTGAATGAGACATCTATCATTCTAGAGTGGCACCCCTCAAGAGAGACCGGTGGG
CGAGATGATGTGACCTACAACATCATCTGCAAGAAGTGCAGAGCAGACCGCCGGAGTTGCTCCCGTGGC
ATGACAATGTGGAGTTTGTACCCAGACAGCTGGGCTTGACTGAGTGTCTGTCTATCAGTAGCCATG
GGCCACACCCCATACACTTTTGATATCCAGGCCATCAATGGAGTCTCTAGCAAGAGTCCCTTCCCCCA
CAGCATGTCTGTCAACATCACCACAAACCAAGCTGCCCTCCACTGTTCTATCATGCACCAGGTCA
GTGCCACCATGAGGAGCATCACCTTGTGATGGCCTCAGCCGGAGCAGCCTAATGGCATCATCTGGACTA
TGAGATCCGGTACTATGAGAAGGAGCACAATGAGTTCAACTCTTCCATGGCCAGGAGCCAGACCAACAGC
GCACGTATCGATGGGCTACGGCCCGCATGGTGTATGTGGTCCAGGTACGAGCTCGAACCGTGGCTGGCT



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 GCAGCTACCCCTGATCGCTGGCTCTGCAGCAGCTGGGGTTGATTTGTTGTGTCTCTGGTGGCTATCTCC
 ATTGTCTGCAGCAGGAAACGAGCTTACAGCAAAGAGGCTGTGTACAGTGATAAATTCAGCATTACAGCA
 CAGGCCGAGGCTCCCCAGGGATGAAGATCTACATTGACCCGTTCACTTATGAGGACCCTAATGAAGCTGT
 CCGGGAGTTTGCCAAGGAGATTGATGTCTTTTGTGAAAATTGAAGAGGTCATCGGAGCAGGGGAGTTT
 GGAGAAGTGTACAAGGGCCGATTGAAGCTGCCAGGCAAGAGGGAAATCTATGTGGCCATCAAGACCCTGA
 AAGCTGGTACTCAGAGAAACAGCGTCGGGATTTTCTGAGCGAGGCGAGCATCATGGCCAGTTTGACCA
 TCCCAACATCATTGCGCTAGAGGGTGTGTCACCAAGAGCCGACCTGTCATGATCATTACGGAGTTCATG
 GAGAATGGCGCTTTAGACTCTTCTCCGGCAAAATGACGGACAGTTCACCGTGATCCAGCTTGTGGGGA
 TGCTGAGGGGCATCGCTGCTGGCATGAAGTACCTATCTGAGATGAATTATGTGCACCGGGACCTGGCTGC
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 GATGACACCTCAGACCCACCTACACCAGCTCCTTGGGAGGGAAGATACCTGTTAGATGGACAGCTCCAG
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 TCTCAAGACTGTGGCAACCATCACCGCTGTGCCTTCCCAACCCCTGCTTGACCGCTCTATCCCAGACTTC
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 CCGCTGGCTTACCTCCCTCCAGCTGGTCAACCAGATGACATCAGAAGACCTCCTGAGAATAGGGGTAC
 CTTGGCAGGCCATCAGAAGAAGATTCTTAGCAGCATCCACTCGATGAGGGTCCAGATGAACCAGTACCCG
 TCGGTAATGGCA

ACGCGTACGCGGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR205279 representing NM_001104528
 Red=Cloning site Green=Tags(s)

MALDCLLLFLLASAVAAMEETLMDTRTATAELGWTANPASGWEEVSGYDENLNTIRTYQVCNVFEPNQNN
 WLLTTFINRRGAHRIYTEMRFVTRDCSSLPNVPGSCKETFNLYYETDSVIATKKSFAWSEAPYLKVDTI
 AADESFSQVDFGGRLMKVNTEVRSFGPLTRNGFYLAQDYGACMSLLSVRVFFKKCPSIVQNFVAVFETM
 TGAESTSLVIARGTCIPNAEEVDVPIKLYCNGDGEWMVPIGRCTCKAGYEPENSVACKACPAGTFKASQE
 AEGCSHCPSNSRSPSEASPICTCRTGYRADFDPEVACTSVPSGPRNVISIVNETSIILEWHPPRETGG
 RDDVTYNIICKKCRADRRSCSRCDNVEFVPRQLGLTECRVSISSLWAHTPYTFDIQAINGVSSKSPFPP
 QHVSVNITTNQAAPSTVPIMHQVSATMRSITLWQPQEPNGIILDYEIRYYEKEHNEFNSSMARSQTNT
 ARIDGLRPGMVVYVQVRARTVAGYGKFSGKMCQTLDDDYKSELREQLPLIAGSAAAGVVFVSLVAIS
 IVCSRKRAYSKEAVYSDKLQHYSTGRGSPGMKIYIDPFTYEDPNEAVREFAKEIDVSFVKIEEVIGAGEF
 GEVYKGRLLKLPKREIYVAIKTLKAGYSEKQRDFLSEASIMGQFDHPNIRLEGVVTKSRPVMIIIEFM
 ENGALDSFLRQNDGQFTVIQLVGMLRGI AAGMKYLSEMNYVHRDLAARNILVNSNLVCKVSDFLSRYLQ
 DDTSDPTYTSSLGKIPVRWTAPEAIAYRKFTSASDVWSYGI VMWEVMSFGERPYWDMNQDVINAIEQD
 YRLPPPMDCPAALHQLMLDCWQKDRNSRPRFAEIVNTLDK MIRNPASLKT VATITAVPSQPLLDRSIPDF
 TAF TTVDDWLSAIKMVQYRDSFLTAGFTSLQLVTQMTSEDLRIGVTLAGHQKILSSIHSMRVQMNQSP
 SVMA

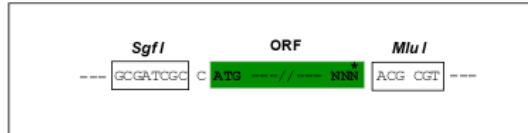
TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-Mlul

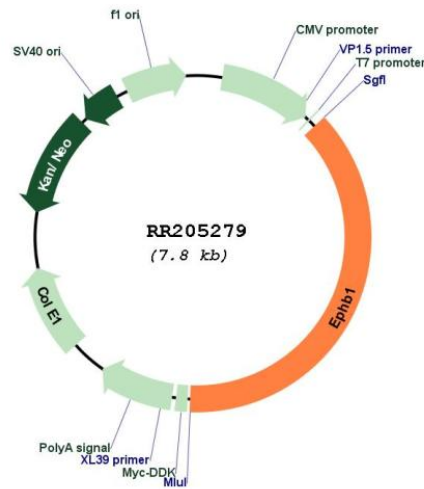
Cloning Scheme:

Cloning sites used for ORF Shutting:



* The last codon before the Stop codon of the ORF

Plasmid Map:



ACCN: NM_001104528

ORF Size: 2952 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_001104528.1 , NP_001097998.1
RefSeq Size:	4625 bp
RefSeq ORF:	2955 bp
Locus ID:	24338
UniProt ID:	P09759
Cytogenetics:	8q32
MW:	109.9 kDa
Gene Summary:	brain-specific receptor tyrosine kinase with an elk coding sequence [RGD, Feb 2006]