

Product datasheet for **MR211158**

Trak2 (NM_172406) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Trak2 (NM_172406) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Trak2
Synonyms:	2900022D04Rik; 4733401O11Rik; AI480836; Als2cr3; AW046271; CALS-C; GRIF-1; GRIF1; mKIAA0549
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR211158 representing NM_172406
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAGTCAATCCCAGAATGCCATTTTCAAATCACGAACAGGTGAAGCAAACCTCATGAGTAGCAATCATA
 GAGACTCGGAGAGCATCACTGATGTCTGCTCCAACGAGGATCTCCCTGAAGTCGAGCTGGTGAACCTTGCT
 AGAAGAACAGCTGCCACAGTATAAGCTAAGAGTAGATTCTTTTTTCTCTATGAAAAACCAAGACTGGGCA
 CAGTCATCACACCAGCAGCAGGATGCGCCTGAGACCCTCTCCCCAGTCCTTGCTGAAGAGACGTTCCGCT
 ACATGATTCTAGGCACAGACAGAGTGGAGCAGATGACCAAAACCTACAATGACATTGACATGGTCACACA
 TCTCTGGCAGAGAGGGATCGAGATCTAGAGCTAGCTGCCGAATTGGGCAAGCTCTTTAAAGCGAAAC
 CATGTCTTATCTGAGCAGAATGAAGCTCTGGAGGAGCAGTTGGGACAAGCCTTTGATCAAGTTAATCAGC
 TGCAGCACGAGCTCTCAAGAAAGACGAGCTGCTCCGAATCGTCTCTATTGCCTCCGAGGAGAGTGAAC
 GGATTCTAGCTGCTCCACGCCCTTCGGTTCAATGAGTCTTCAGCTTATCTCAGGGGCTGCTGCAGCTG
 GACATGCTGCATGAGAAGCTCAGGGAGCTGGAAGAAGAGAACATGGCCCTACGATCCAAGCTTGTCCATA
 TCAAGACAGAAACATTTACCTATGAAGAGAAGGAACAACAGCTCGTCAATGACTGTGTTAAAGAACTTCG
 TGAGACCAATGCACAGATGTCCAGAATGACTGAAGAGCTGTGGGAAAGAGCGACGAGCTGCTCCGGTAC
 CAAGAGGAGATCTCCTCCTGCTGTCTCAGATCGTAGACCTTCAGCACAAACTGAAAGAGCATGTGATCG
 AGAAGGAAGAACTAAGACTTCACCTGCAGGCTTCCAAAGATGCCAGCGACAGCTGACAAATGGAGCTTCA
 TGAGTTACAGGACAGGAACATGGAATGCCTGGGAATGTTACATGAGTCCCAAGAAGAAATAAAAGAGCTT
 CGTAGCAAGTCCGGCCCTTCTGCTCATCTGCTTCTCCAGCTTACGGCGTTTTTACAGGGGAATCGT
 TGGCAGCTGAGATTGAAGGGACCATGCGTAAAAAGCTGAGTTTGGATGAGGAATCTGTCTAAAACAAA
 GGCCACAGCAGAAACGGGTGTTTGATACTGTCAAGGTTGCCAATGACACTCGGGGCCGCTCTGTACCTTC
 CAGTCTGCTACCCATCCCAGGCTCCAACCGTTCAAGTGTATCATGACAGCAAAGCCCTTTGAGTCTG
 GTGTCCAGCCAGCAGAGGACAAAACACTCCTGAGCCCAGGGGCGAGCACAGAGGTTCCAGGAAACTCGCA
 GCCCACAAACCCCCAGGATCCCCTGAAGATAGTATCTGGTACTGCATTGCATCGCCTCAGCCTGAGA
 AGACAGAACTACCTAAGTGAGAAGCAGTTCTTTGCTGAGGAATGGGAACGGAAGATCCAGATCTTGGCTG
 AGCAGGAGGAAGAAGTACGACAGCTGTGACGCCCCACGGAGAACCTTGCCTCAGTCTGCACTGACCAGTC
 GGAGACCACGGACTCGGCAGTGCCAGCTGCCTTCGAGGCTTCATGCCAGAGAAGTTACAGATTGTCAAG
 CCCCTAGAAGGATCACAGACTCTGCATCACTGGCAGCAGCTTGTCTCAGCCGAACCTGGGAACCATCTTG
 ATCCACGCCCAGGCGTCACTAAAGGCTTCACACAGGTGCCCAAGGATGTTGTCTACCACATCTCGGA
 CTTAGAGGAGGATGAAGAAGAGGGCATCACTTTTCAGGTTCAAGCAGCCTCTTCAACTGGAGCAGAAACCT
 GCACTGCCACGCCAGTAACGGGAATCTTTCTGCCGCCATGACCTCAGCGGGTGGACCAGGTACAGTTG
 CAACTTCGAACCCAGGAAAGTGTCTCTCATTACCAACTCGACATTCACCTTCACCACCTGCAGGATCTT
 ACATCCCTCTGACATCACTCAGTCAACCCTAGCTCCGGTTTCCCATCACTGGCCTGTGGCAGTAGTGCG
 AGCAGCTCATCCAACACGGCTGTGAACCTCCCTGCTGCATCCTATAGACTAAGCATTGGCGAATCCATCA
 CAAACCCGAGGGACTCCACCATAACCTTCAGTAGCACCAGGAGCTTAGCCAAACTCTGCAGGAGCGAGG
 CATCTCTGCTAAAGTGTACCACAGCCCGGCTTCAGAAAACCCCTCCTGCAGCCTTGCCCAAGGCCCTG
 GCCACCCCTCCACACCACAAATTCACAGCGCAGTCAACGTGCTCCTCCCTTGGCCTTTGAACCCC
 GAGTGCATGTCTCCGAGAATTTCTGGCTTCCCGACCAGCTGAAACATTCTGCAAGAAATGTATGGCTT
 GAGACCTTCAAGGGCCCTCCTGATGTTGGACAGCTGAAGATGAACCTGGTAGACAGGCTGAAGAGGCTG
 GGAATAGCCAGGGTGGTCAAGACCCCTGATCCCCAGGAGAACGAAAAAGCCGAGAAGCAGAAATGGGTC
 TTCAAAAACAGACCCTGCTGTTATTTAAATTCAGGTGGCAGTTTATTGTGGACTGAGGAGGAATCA
 GAGTCTCCGGTCATGATGGGTAGCTTTGGAGCCCAAGTTGCACAACCTCACCCAAAATGGGTATCCTG
 AAGGAAGAT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR211158 representing NM_172406
 Red=Cloning site Green=Tags(s)

MSQSQNAIFKSRTEANLMSNHRDSEITDVCNSNEDLPEVELVNLLEEQLPQYKLRVDSLFLYENQDWA
 QSSHQQDAPETLSPVLAETFRYMILGTDREVMTKTYNDIDMVTHLLAERDRDLELAARIGQALLKRN
 HVLSEQNEALEEQLGQAFDQVNLQHELKKDELLRIVSIASEESETDSSCSTPLRFNFSLSQGLLQL
 DMLHEKLRELEENMALRSKACHIKTETFTYEEKEQQLVNDCVKELRETNAQMSRMTEELSGKSDLELLRY
 QEEISSLLSQIVDLQHKLKEHVIEKEELRLHLQASKDAQRQLTMELHELQDRNMECLGMLHESQEEIKEL
 RSKSGPSAHLCFQSQYGVFTGESLAAEIEGTMRKLSLDEESVSKQKAQKRVFDTVKVANDTRGRSVTF
 PVLLPIPGNSRSSVIMTAKPFESGVQPAEDKTLSPGGSTEVPNGSQPTNPPGSPEDSLATALHRLSLR
 RQNYLSEKQFFAEWERKIQILAEQEEVSSCDAPTENLASVCTDQSETTDLGSASCLRGFMPEKLQIVK
 PLEGSQTLHHWQQLAQPNLGTILDPRPGVITKGFQVPKDVVYHISDLEEDDEEGITFQVQQLQLEQKP
 ALPTPVTGIFLPPMTSAGGPGTVATSNPGKCLSFNTSTFTTTCRILHPSDITQVTPSSGFPPLACGSSA
 SSSSNTAVNSPAASYRLSIGESITNRRDSTITFSSTRSLAKLLQERGISAKVYHSPAENPLLPCKPKAL
 ATPSTPPNSPAQSPCSSPLPFEPVHVSENFLASRPAETFQEMYGLRPSRAPPDVQGLKMNLDRLKRL
 GIARVVKTPDPQENGKSREAEMGLQKPDPAVYLNSSGSLCGLRRNQSLPVMGSGFAPVCTTSPKMGIL
 KED

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9096_b04.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_172406

ORF Size: 2739 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:

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_172406.3](#), [NP_765994.2](#)

RefSeq Size: 6286 bp

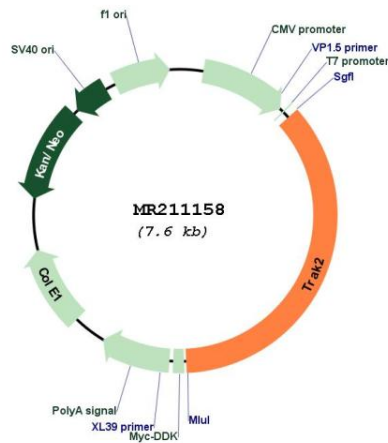
RefSeq ORF: 2742 bp

Locus ID: 70827

Cytogenetics: 1 C1.3

MW: 101.3 kDa

Product images:



Circular map for MR211158