

Product datasheet for **RG208137**

JRK (NM_003724) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	JRK (NM_003724) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	JRK
Synonyms:	jerky; JH8
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG208137 representing NM_003724
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCCTCCAAGCCGGCTGCCGGGAAGAGCAGAGGGGAGAAGCGGAAGAGGGTGGTGTGACTGAAGG
 AGAAGATTGACATCTGCACGCGCCTGGAGAAGGGCGAGAGCCGGAAGGCACTGATGCAGGAGTACAATGT
 GGGCATGTCCACCCTCTACGACATCAGGGCCACAAGGCGCAGCTGCTCCGGTTCTTCGCCAGCTCCGAC
 TCCAACAAGGCGCTGGAGCAGCGGCGCACGCTGCACACGCCAAGCTGGAGCACCTGGACCGCGTCTGT
 ACGAGTGGTTCCTGGGAAGCGCTCCGAGGGCGTCCCCGTGTCAGGCCCATGCTCATCGAGAAGGCCAA
 GGACTTCTACGAGCAGATGCAGCTCACTGAGCCCTGCGTGTCTCCGGAGGGTGGCTTTGGCGCTTTAAG
 GCCAGACACGGCATTAAAAAGCTAGATGCATCCAGTAAAAGCAGTCAGCCGACCACCAGGCCGCGGAGC
 AGTTCTGTGCGTTTTTTCAGGAGCTTGGCTGCTGAGCACGGGCTGTCGCCGAGCAGGTTTACAACGCTGA
 TGAGACCGGCCTTTTCTGGCGGTGCTGCCAAATCCCCTCCGGAAGGCGGGGCTGTGCCTGGCCCCAAG
 CAGGGCAAGGACCGGCTGACCGTGTGTGTGCCAACGCCACGGGCTCCCACAGGCTCAAAGCCCTTGG
 CCATCGGGAAGTGCAGCGGTCCCAGGGCTTTCAAAGGCATCCAGCACCTGCCCGTCGCTATAAGGCCCA
 GGGAAACGCTGGGTGGACAAGGAGATTTTTCCGATTGGTTCATCATATCTTTGTGCCCTCGGTGAGA
 GAGCACTTCAGAACCATAGGTTTCCCGGAAGACAGCAAAGCCGTCTCTTGTGACAGCTCCCGGGCTC
 ACCCGCAGGAGGCGAGCTGGTGTCCAGTAACGTTTTCCACATCTTCTGCTGCCAGCGTGGCCTCATT
 GGTGCAGCCATGGAGCAGGGCATTCCGAGAGATTTTATGAGGAACTTCATTAACCCTCCGGTCCCCCTG
 CAGGGCCCCACGCCCGCTACAACATGAACGATGCCATATTCAGCGTGGCCTGTGCCTGGAACGCACTCC
 CTAGCCACGCTTTCAGGCGGGCCTGGAGGAAGCTGTGGCCGTGCTTGGCTTTGCCGAAGGCTCCTCCTC
 TGAGGAGGAGTTGGAGGCAGAGTCTTCCAGTGAAGCCCCACAACAAGTCTTTGCACACATCCTGGAG
 CTTGTGAAGGAAGGCTCCTCCTGCCCGGCCAGCTTCGCCAGCGCCAGGCGCCAGCTGGGGGTAGCGG
 GAAGGGAGGCAGAAGGGGACGGCCCCCTGCTGCCACGTCGCCAGCAGAGGTTGTGTGGAGTTAGAAAA
 GACTCCGAAAGCTGACCAGGACGGCAGAGGAGATCCTGGTGAAGGCGAGGAGGTGGCCTGGGAGCAGGGC
 GCCGTGGCCTTTGACGAGTCTGCGCTTTGCCGAGCGGCAGCCATGCTTCAGTGCAGGAAAGTGGGGC
 AGCTGCGGGCGCTGCGTGCCTGTTCCGGAGCCAGCAGGAGGAGGCGGCGTGGTGCCTCGGGGC
 TGTGGTCAAGGTTGAAGCCCTCCAGGAGGGCCCTGGTGGCTGTGGGGCCACAGCTCAGTCTCCCTTGCCC
 TGCTCATCCACAGCAGGTGACAAC

ACGCGTACGCGGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG208137 representing NM_003724
 Red=Cloning site Green=Tags(s)

MASKPAAGKSRGEKRRVVLTLKEKIDICTRLEKGESRKALMQEYNVGMSTLYDIRAHKAQLLRFFASSD
 SNKALEQRRTLHTPKLEHLDRVLYEWFLGKRSEGVVPSGPMLEKAKDFYEQMLTEPCVFSGGWLRFK
 ARHGIKKLDASSEKQSADHQAAEQCAFFRSLAAEHLSAEQVYNADEGLFWRCLPNPTPEGGAVPGPK
 QGKDRLTVLMCANATGSHRLKPLAIGKCSGPRAFKGIQHLPVAYKAQGNWVDKEIFSDWFHHIFVPSVR
 EHFRTIGLPEDSKAVLLLDSSRAHPQEAELVSSNVFTIFLPASVASLVQPMEQGIRRDPMRNFINPPVPL
 QGPHARYNMNDIAIFSVACAWNAVPSHVFRRAWRKLWPSVAFAEGSSSEEELEAEFCFVPHNKSFAHILE
 LVKEGSSCPQLRQRQAASWGVAGREAEGRPPAATSPAEEVWSSEKTPKADQDGRGDPGEGEEVAWEQA
 AVAFDAVLRFAERQPCFSAQEVGQLRALRAVFRSQQVRRRRRGGALGAVVKVEALQEGPGGCGATAQSPLP
 CSSTAGDN

TRTRPLE – GFP Tag – V

Restriction Sites:

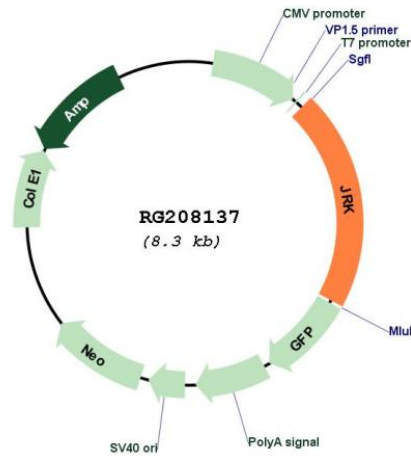
SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN: NM_003724
 ORF Size: 1704 bp

OTI Disclaimer:	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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</p>
OTI Annotation:	<p>This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.</p>
Components:	<p>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).</p>
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_003724.4
RefSeq Size:	9116 bp
RefSeq ORF:	1707 bp
Locus ID:	8629
UniProt ID:	O75564
Cytogenetics:	8q24.3
Domains:	DDE, CENPB, CENP-B_N
Protein Families:	Transcription Factors
Gene Summary:	<p>This gene encodes a conserved protein that is similar to DNA-binding proteins, such as major centromere autoantigen B (CENPB). Inactivation of the related gene in mice resulted in epileptic seizures. Childhood Absence Epilepsy (CAE) has been mapped to the same chromosomal location (8q24.3) as this gene. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jul 2013]</p>