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Product datasheet for RG219504

Kanadaptin (SLC4A1AP) (NM_018158) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Kanadaptin (SLC4A1AP) (NM_018158) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Kanadaptin
Synonyms:	HLC3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

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ORF Nucleotide Sequence:

>RG219504 representing NM_018158
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGTTAGCACCACTTCGCAACGCTCCAGGTCGTGAAGGAGCAACTTCACCATCGCCGCCTACAGACGCCA
CTGGGAGCTTGGGAGAGTGGGACGTGGACAGGAACGTAAAGACCGAAGGGTGGGTTTCGAAGGAGCGGAT
TTCGAAGTTGCACCGGTTGAGGATGGCTGACATTCTCTCTCAGTCAGAGACCCTGGCGTCGCAAGACCTC
AGTGGGGACTTCAAGAAGCCAGCTCTGCCGGTGTCCCCAGCGGCGCGGAGTAAGGCCCCGGCCAGCAGTT
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CATCCCTCCTCCTCAGCCGGACTGCGGTGATTTTAGGAGTCTACAGGAGGAGCAGTCGCGCCCCACGACA
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CCAGACTACTGTGTGTGGGTCCCACCTGAAGGTCAAAGTGGAGATGGCAGAACCCATCTTAATGACAAGT
ATGGCTAT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG219504 representing NM_018158
Red=Cloning site Green=Tags(s)

MLAPLRNAPGREGATSPSPPTDATGSLGEWDVDRNVKTEGWVSKERISKLHRLRMADILSQSETLASQDL
SGDFKKPALPVSPAARSKAPASSSSNPEEVQKEGPTALQDSNSGEPDIPPPQPDCGDFRSLQEEQSRPTT
AVSSPGGPARAPPYQEPPWGGPATAPYSLETLKGGTILGTRSLKGTSYCLFGRLSGCDVCLEHPSVSRYH
AVLQHRASGPDGECDSNGPGFYLYDLGSTHGTFLNKTRIPPRTYCRVHVGHVVRFGGSTRLFILQGPEED
REAESELTVTQLKELRKQQQILLEKKMLGEDSDEEEEMDTSERKINAGSQDDEMGCTWGMGEDAVEDDAE
ENPIVLEFRQEREAFYIKDPKKALQGFFDREGEELEYEFDEQGHSTWLCRVRLPVDDSTGKQLVAEAIHS
GKKKEAMIQCSLEACRILDTLGLLRQEAVSRKRKAKNWEDEDFYDSDDDTFLDRTGLIEKKRLNRMKKAG
KIDEKPETFESLVAKLNDAERELSEISERLKASSQVLSESPSQDSLDAFMSEMKSGSTLDGVSRKKLHLR
TFELRKEQQRLKGLIKIVKPAEIPELKKTETQTTGAENKAKKLTLPLFGAMKGGSKFKLKTGTVGKLPPK
RPELPPTLMRMKDEPEVEEEEEEEEEEKEKEEHEKKKLEDGSLSRPQPEIEPEAAVQEMRPPTDLTHFK
ETQTHENMSQLSEEEQNKDYQDCSKTTSLCAGPSASKNEYEKSRGELKKKKTPGPGKLPPTLSSKYPEDD
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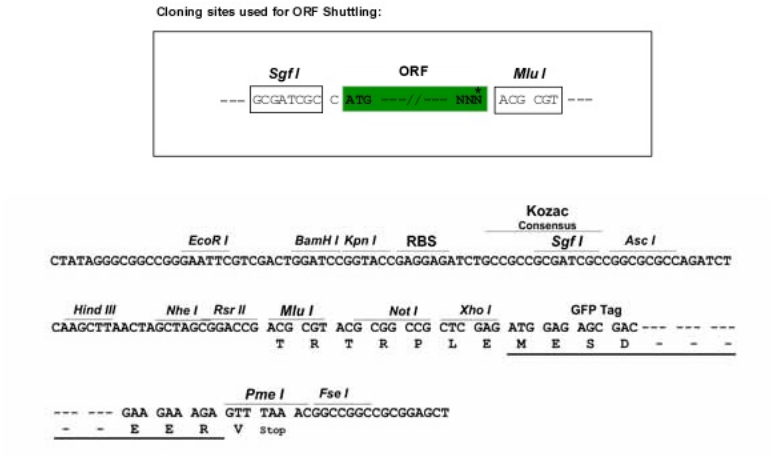
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

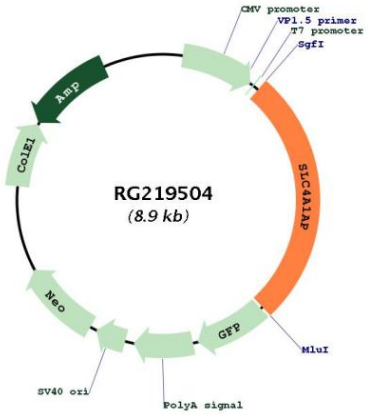
Cloning Scheme:



ACCN:	NM_018158
ORF Size:	2388 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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_018158.1, NP_060628.1
RefSeq Size:	2954 bp
RefSeq ORF:	2391 bp
Locus ID:	22950
UniProt ID:	Q9BWU0
Cytogenetics:	2p23.3
Domains:	FHA

Product images:



Circular map for RG219504