

Product datasheet for **RG222323**

ACTR8 (NM_022899) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ACTR8 (NM_022899) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	ACTR8
Synonyms:	ARP8; hArp8; INO80N
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG222323 representing NM_022899
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGACCCAGGCTGAGAAGGGTGATACGGAGAACCGAAAGGAGAAGGGCGCGAGAAGGAGAAGGAGCAGC
 GCGGCGTGAAGCGGCCCATCGTGCCCGCGCTGGTGCCGGAGTCGCTGCAAGAGCAAATCCAGAGCAACTT
 CATCATTGTACATACCCAGTTCAACAACCTTTAAGGATTGGTCGAGCCACAGACTCTTCCTGCCAGC
 ATTCCTCACGTCAATGCCCCGAAGACACAAAACAAGGGCAGCCCTATACAAGGACAGTTGGCTCTAA
 GGGAGGGACTAAATAAACAGAAAGTAATGAACAAAGACAAAATGGCCTTAAAAATGGTGGATCAAGCAAT
 ATGGTCTAAAAAGATGTCCAATGGTACAAGACGCATTCTGTGTCCCCTGAACAGGCACGCTCTACAAT
 AAGCAGATGCGACCTGCAATTTAGATCACTGTTCCGGAAATAAGTGACAAACACATCTCATACCCTG
 AGTATTTAGTAGGAGAAGAGGCCTTGTATGTTAATCCACTGGACTGTTACAATATTCAGTGCCTATCAG
 AAGAGGTCAGTTAAATATTCACCCAGGCCCTGGGGCTCTTTACAGCTGTTCTGGCAGATATTGAAGTA
 ATATGGTCTCATGCGATACAAAAATACTTGGAAAATCCCACTGAAAGATTTAAAGTATTATAGATGTATCT
 TGTTAATTCCTGATATCTATAATAAGCAGCATGTGAAAGAAGTGAATATGATACTAATGAAGATGGG
 TTTTTCAGGGATTGTGGTCCATCAGGAGTCTGTGTGTGCCACCTATGGAAGTGGCTTAAGCAGCAGTGT
 ATTGTAGACGTTGGGACCAGAAGACAAGTGTATGCTGTGTGGAGGATGGGGTGTCTCATCGGAATACTC
 GGCTTTGTCTGGCATACGGAGGATCTGATGTGTCAAGATGTTTTACTGGCTAATGCAGCGAGCTGGGTT
 CCCTTACAGAGAATGCCAGTTAACAAAATAAAATGGATTGTCTTCTTCTGCAACACCTTAAAGAACTTTT
 TGTCAATTAGATCAGGACATCTCTGGGCTTCAGGACCATGAGTTTCAGATTTCGACATCTGATTCTCCTG
 CCCTGCTTTACCAGTTTCGATTAGGAGATGAAAAACTGCAGGCTCCAATGGCTTTGTTTTACCCCGCAAC
 TTTTGGAAATCGTTGGACAGAAAATGACGACTTTGACGACAGATCTCAGGGCGATCCTGAGGATCCTCAC
 GATGAACATTACCTGCTGGCCACACAGAGCAAACAAGAACAGTCTGCAAAAGCTACTGCTGACCGAAAGT
 CTGCATCCAAACCTATTGGATTTGAAGGGGATCTTCGTGGCCAGTCTCTGATCTCCAGAAAGACTCCA
 TTCCCAGGAGGTAGATTTGGGTCTGCACAGGGAGATGGCCTGATGGCCGGCAACGATTCAGGAGGACC
 CTCACTGCACTGATGTCCAGGAAGACTGCCATCTCGCTGTTTGAAGGAAAAGCCCTGGGCTGGATAAAG
 CCATCCTCCATAGCATAGACTGCTGTTTCATCTGACGACACCAAAAAGAAGATGTACAGCTCCATCCTAGT
 GGTGGGAGGTGGTTTGTATGTTTCATAAAGCTCAAGAATTTCTGCAGCACAGAATTCTCAACAAAATGCCA
 CCATCCTTCAGGCGAATTATTGAAAATGTGGATGTGATACAAGGCCTAAGGACATGGACCCCGGCTGA
 TTGCATGGAAAGGAGGGGCAAGTGTGGCTGTTTGGATACAACACAGGAAGTGTGGATTTATCAGCGAGA
 GTGGCAGCGCTTTGGTGTCCGCATGTTACGAGAGCGGGCTGCGTTTGTGTGG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG222323 representing NM_022899
 Red=Cloning site Green=Tags(s)

MTQAEKGDTEGKEKEGGEKEKEQKRVKRPVIVPALVPESLQEQIQSNFIIIVHPGSTTLRIGRATDTLPAS
 IPHVIARRHKQQGQPL YKDSWLLREGLNKPESENEQRQNLKMVDQAIWSKKMSNGTRRIPVSPEQARSYN
 KQMRPAILDHCSGNKWTNTSHHPEYLVGEEALYVNPLDCYNIHWPVIRRGQLNIHPGPGGSLTAVLADIEV
 IWSHAIQKYLEIPLKDLKYRCILLIPDIYNKQHVKELVNMILMKMGFSGIVVHQESVCATYGSLSSTC
 IVDVGDQKTSVCCVEDGVSHRNRRLCLAYGSDVSRCFYWLQMRAGFPYRECQLTNKMDCLLLQHLKETF
 CHLDQDISGLQDHEFQIRHPDSPALLYQFRLGDEKLQAPMALFYPATFGIVGQKMTTLQHRSQGDPEDPH
 DEHYLLATQSKQEQSAKATADRKSASKPIGFEGLRGQSSDLPERLHSQEVLDLGSAQGDGLMAGNDSEEA
 LTALMSRKTAIISLFEGKALGLDKAILHSIDCCSSDDTKKKMYSSILVVGGLMFHKAQEFQHRILNKMP
 PSFRRIIENVVDVITRPKMDPRLIAWKGGAVLACLDTTQELWIYQREWQRFVVRMLRERAAFW

TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_022899

ORF Size: 1872 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_022899.5](#)

RefSeq Size: 3629 bp

RefSeq ORF: 1875 bp

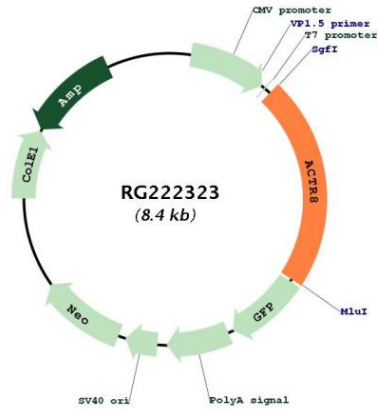
Locus ID: 93973

UniProt ID: [Q9H981](#)

Cytogenetics: 3p21.1

Gene Summary: Plays an important role in the functional organization of mitotic chromosomes. Exhibits low basal ATPase activity, and unable to polymerize.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG222323