

Product datasheet for **RG206412**

ACTR5 (NM_024855) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	ACTR5
Synonyms:	Arp5; INO80M
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



ORF Nucleotide Sequence: >RG206412 representing NM_024855
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGGCGGCGAACGTGTTCCCGTTCGCGACGCCGTGCCGACCGGACCCAGTCTGGAGGCCGCCCGG
 TGGCACACGGGCCACTGCCGTACCGCTGGTCTGGACAACGGGTCTTCCAAGTCCGCGCTGGCTGGGC
 GTGTCCCGGCGAGGACCCAGGTCCCAGCCGCGCTGCAGTTCCGCGCGGTGTGCGCCCGCGGTCTGGC
 GGGGACCGGGCGCGTGGGCCCGCAGGTGGGGAACGCTCTGGGACGCTGGAGCCACTGCGCTGGATGC
 TGCCTCGCCCTTCGACCGCAACGTGCCGGTCAACCTGGAGCTTCAGGAGTTGCTGCTGGACTACAGCTT
 CCAGCACCTGGGTGTCTCTCACAGGGCTGTGTTGATCATCCCATAGTTTTCACAGAAGCTGTGTCAAC
 CCACTGTATTCACGGCAAATGATGTCTGAGCTTCTTTTGTAGTGCTACGGGATCCCAAGGTTGCCTATG
 GAATAGACAGCCTTCTCAGCTTCTACCACAATAAGCCAAAGAACTCGATGTGCAGTGGGCTAATCATTTT
 ATCTGGATACCAAGTGTACGCATGTTTTACCCATCTTAGAAGGGAGATTAGATGCTAAAACTGCAAGCGC
 ATCAATCTTGGAGGAAGCCAAGCAGCTGGTTACCTCCAGCGTCTCTCCAGCTGAAGTACCTGGGCACC
 TGGCAGCCATCACCTCAGCCGATGGAGGAGATTCTGCATGAGCAGAGCTACATCGCTGAGGATTATGT
 GGAAGAATTACACAAATGGCGGTGTCTGATTATTATGAGAATAATGTCCACAAGATGCAGCTCCCATTT
 TCCAGCAAGCTCTGGGCGAGCTCTGACCTCTGAGGAGAAACAAGAAAGGCGGAGCAGCAATTGCGGC
 GGCTGCAGGAGCTCAATGCCCGCGCGGAGGAGAGAAGCTGCAGCTGGATCAGGAGCGTCTGGACCGACT
 GCTATATGTGAGGAATCTTAGAGGATGGCCAGATGGATCAGTTTCAAAAGCTCTGATAGAGCTGAAT
 ATGGACTCCCAGAAAGCTGCAGTCTACATCCAGAAGCTCAGTATAGCAGTGGAGCAGGCTAAGCAGA
 AAATCTCCAAGCGGAAGTCAACCTCGAGGTGGATGTGGTAGACAGCAAGCCAGAGACCCCTGACCTGGA
 GCAGCTGGAGCCGTCTTTGGAAGATGTGGAAGCATGAATGATTTTGTATCCCTTGTTTTAGAGGAAACA
 CCTGGAGTGGAGAAGCCGGTCACCACTGTTGAGCCCGTGTAACTTGGCAGCATATCATCAGCTATTTG
 TTGGGACAGAAAGAATTCGAGCTCCAGAGATTATTTCCAGCCATCTCTCATAGGAGAAGAACAGGCTGG
 GATTGCAGAGACTCTTCAGTACATTCTGGACAGGTACCCAAGGACATTAGGAAATGCTGGTTCAGAAC
 GTTTTCTCTCACTGGCGGCAACACGATGTATCCTGGCATGAAAGCCAGAATGGAGAAGGAACTGTTGGAGA
 TGAGACCCCTTCGGTCTTCTTTTCAAGTTCAACTGCCTCGAACCTGTGCTGGATGCCTGTTACGGTGC
 TCGTGAAGTGGGCTTGAACCACTAGATGATAATGAAGTTTGGATCACCAGGAAAGAGTATGAAGAAAAG
 GGAGGAGAGTACCTCAAGGAGCACTGTGCTTCAACATCTATGTCCCATCCGCTGCCGAAGCAGGCT
 CCCGCTCTCAGATGCCAGGCATCCAGCAAGGGCTCCGCTGCTGGTGGAGGTGGTGTGTTGAGCAGGC
 A

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG206412 representing NM_024855
 Red=Cloning site Green=Tags(s)

MAANVFPRDARAAPDPVLEAGPVAHGPLPVPLVDNGSFQVRAGWACPGQDPGPEPRLQFRAVCARGRG
 GARGASGPQVGNALGSLEPLRWMLRSPFDRNVPVNLELQELLLDYSFQHLGVSSQGCVDHPVLTEAVCN
 PLYSRQMMSELLFECYGIPKVAYGIDSLFSFYHNKPKNSMCSGLIISSGYQCTHVLPILEGRLDAKNCKR
 INLGGQAAGYLQRLQLKYPGHAAITLSRMEEILHEHSYIAEDYVEELHKWRCPDYENNVMHMQLPF
 SSKLLGSTLTSEEKQERRQQQLRRLQELNARRREEKLQDQERLDRLLYVQELLEDDGQMDQFHKALIELN
 MDSPEELQSYIQKLSIAVEQAKQKILQAEVNLEVDVDSKPEPTDLEQLPSLEDVESMNDPDLFSEET
 PGVEKPVTTVQPVFNLAAYHQLFVGTGERIRAPEIIFQPSLIGEEQAGIAETLQYILDRYPKDIQEMLVQN
 VFLTGNTMYPGMKARMEKELLEMRPFRSSFQVQLASNPVLDWYGARDWALNHLDDNEVWITRKEYEEK
 GGEYLKEHCASNIYVPIRLPKQASRSSDAQASSKGSAGGGGAGEQA

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_024855

ORF Size: 1821 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.

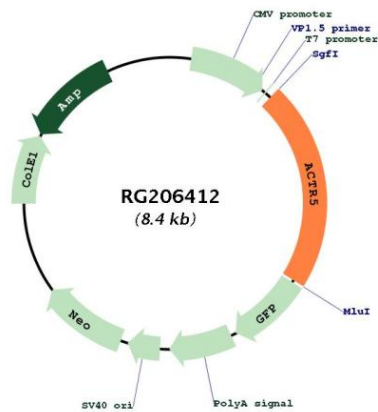
Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_024855.4](#)

RefSeq Size: 2479 bp
RefSeq ORF: 1824 bp
Locus ID: 79913
UniProt ID: [Q9H9F9](#)
Cytogenetics: 20q11.23
Domains: ACTIN

Gene Summary: Proposed core component of the chromatin remodeling INO80 complex which is involved in transcriptional regulation, DNA replication and probably DNA repair. Involved in DNA double-strand break repair and UV-damage excision repair.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG206412