

Division of Signal Transduction Therapy

Standard Operation Procedure

Preparation of Cullin-3 / Rbx1

<u>Enzyme description:-</u>	Cullin-3 / Rbx1 dimer
<u>Clone number:-</u>	DU23291
<u>Source:-</u>	Recombinant
<u>Tag:-</u>	cleaved from Dac-tag
<u>Purification method:-</u>	Ampicillin Sepharose, SEC
<u>Expression level:-</u>	3mg/L

Calculated molecular mass:-

Monoisotopic	Cullin-3:	89074 Da
Average Mass	Cullin-3:	89129 Da
Monoisotopic	Rbx1:	12265 Da
Average Mass	Rbx1:	12273 Da

[cysteines reduced, methionines have not been oxidised]

Theoretical pI:- Cullin2: 8.98 Rbx1: 7.00

Purity:- 90%

Enzyme storage buffer:-

50 mM HEPES pH 7.5, 10% glycerol, 150mM NaCl, 1mM TCEP

Storage temperature:- -80°C

Assay:-

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Clone Data Sheet

Protein name

Protein Cullin-3 1-768 (full length)

Synonyms Cul3

Clone Number DU23291

Species Human

Accession Number Q13618

Tags cleaved from Dac-tag

Aminoacid sequence of
the purified and cleaved
Cullin-3

**GGSMSNLSKGTGSRKDTKMRIRAFPMDEKYVNSIWLLKNAIQEIQ
RKNNSGLSFEELYRNAYTMVLHKKHGEKLYTGLREVVTEHLINKVREDV
LNSLNNNFLOTLNQAWNDHQAMVMIRDILMYMDRVYVQONNVENVYN
LGLIIFRDQVVRGYCIRDHLRQTLDDMIARERKGEVVDARGAIRNACQM
LMILGLEGRSVYEEDFEAPFLEMSAEFFQMESQKFLAENSASVYIKKV
EARINEEIERVMHCLDKSTEPIVKVVERELISKHMKTIVEMENSGLV
HMLKNGKTEDLGCMYKLSRVPNGLKTMCECMSSYLREQKALVSEEG
EGKNPVDYIQGLLDLKSFRDRFLLESFNNDRLFQTIAGDFEYFLNLN
SRSPEYLSLFIIDDKLKKGVKGLTEQEVETILDKAMVLFQFMQEKDVFE
RYYKQHLARRLLTNKSVSDDSEKNMISKLKTECGCQFTSKLEGMFRDM
SISNTTMDEFQHLQATGVS LGGVDLTVRVLTGTYWPTQSATPKCNIP
PAPRHAFEIFRRFYLAHSGRQLTLQHMGSAADLNATFYGPVKKEDGS
EVGVGGAQVTGSNTRKHILQVSTFQMTILMLFNNREKYTFEEIQQETD
IPERELVRALQSLACGKPTQRVLTKEPKSKEIENGHIFTVNDQFTSKL
HRVKIQTVAAKQGESDPERKETRQKVDDDRKHEIEAAIVRIMKSRKKM
QHNVLVAEVTQQLKARFLPSPVVIKKRIEGLIEREYLARTPEDRKVYT
YVA**

Native sequence in bold

Protease cleavage TEV site underlined

Cloning sites BamH1 / Not1

**DNA sequence
of the Cullin 3
insert**

GGATCCATGTCTAACCTGTCTAAGGGCACTGGCAGCCGTAAGGATACCAAGAT
GAGAATCAGAGCCTTCCCGATGACTATGGACGAAAAGTACGTGAACCTCATCT
GGGACCTGCTCAAGAACGCTATCCAGGAGATCCAAAGGAAGAACAACCTCCGGC
TTGTCTTTCGAGGAACTGTACAGAAACGCCTACACTATGGTGTGCACAAGCA
CGGCGAGAAGCTCTACACTGGCTTGCCTGAAGTGGTCACAGAGCACCTCATCA
ACAAGGTTTCGCGAAGATGTGCTCAACTCTTTGAACAACAACCTTCCTGCAGACT
CTCAACCAGGCTTGAACGACCACCAGACAGCTATGGTCATGATCAGGGATAT
CCTGATGTACATGGACAGAGTCTACGTTTCAGCAAAAACAACGTGGAGAACGTCT
ACAACCTCGGATTGATCATCTTCCGTGACCAGGTTGTGCGCTACGGTTGCATC
CGTGATCACCTCCGCCAAACCTTGCTGGACATGATCGCTCGTGAACGCAAGGG
AGAGGTCGTTGATAGGGGTGCTATCAGAAACGCCTGTGATGCTGATGATCC
TGGGTCTCGAAGGCAGGAGCGTCTACGAGGAAGACTTCGAGGCTCCCTTCCTC
GAAATGTCGGCCGAGTCTTCCAGATGGAATCCCAAAGTTCTTGGCTGAGAA
CAGCGCCTCAGTCTACATCAAGAAGGTTGAAGCCCGTATCAACGAGGAAATCG
AGCGCGTTATGCACTGCCGACAAAGTCAACCGAGGAACCTATCGTCAAGGTG
GTCGAGCGCGAACTCATCTCCAAGCACATGAAGACCATCGTCGAGATGGAAAA
CTCTGGTCTGGTTCACATGCTCAAGAACGGCAAGACTGAGGACCTGGGATGTA
TGTACAAGCTCTTCTCCAGGGTGCCCAACGGCCTGAAGACTATGTGCGAATGT
ATGTCCTCTTACCTCAGAGAGCAGGGAAAGGCTTTGGTTTCTGAGGAAGGCGA
GGGAAAGAACCCTGTGGACTACATCCAAGGCCTCTTGGATTTGAAGTCTAGGT
TCGACCGTTTCCCTGCTGGAGTCTTCAACAACGATAGGCTGTTCAAGCAGACC
ATCGCCGGAGACTTCGAGTACTTCTTGAACCTGAACTCCCGTTCCCCTGAATA
CCTCAGCTTGTTCATCGACGATAAGCTGAAGAAGGGAGTGAAGGGTCTCACCG
AGCAAGAAGTCGAGACTATCTTGGATAAGGCTATGGTCTGTTCCGTTTCATG
CAGGAAAAGGACGTTTTTCGAGCGCTACTACAAGCAACACCTGGCCCGTCGCTT
GCTGACTAACAAGTCTGTGAGCGACGATAGCGAAAAGAACATGATCTCAAAGT
TGAAGACCGAGTGCGGTTGTGAGTTCCTTCTAAGCTGGAAGGCATGTTCCGT
GATATGTCAATCTCGAACACCACTATGGACGAGTTCGGCCAGCACCTGCAAGC
TACCGGTGTGTCACTCGGTGGCGTGGACCTGACTGTGCGTGTCTGACAACCG
GCTACTGGCCCACTCAGTCGGCTACACCTAAGTGCAACATCCCCCTGCTCCA
CGTCACGCCTTCGAAATCTTTCAGGAGATTCTACTTGGCCAAGCACAGCGGACG
CCAGCTGACACTCCAACACCACATGGGTTTCAGCTGATCTGAACGCCACCTTCT
ACGGCCCCGGTGAAGAAGGAAGACGGCTCCGAGGTTGGAGTGGGAGGTGCTCAG
GTGACCGGTTCAAACACTCGCAAGCACATCCTGCAGGTCTCGACATTCCAAAT
GACCATCTTGATGCTGTTCAACAACAGGGAGAAGTACACATTCGAGGAAATCC
AGCAAGAAACCGACATCCAGAACGTGAGCTGGTGCCTGCTCTGCAGTCGCTG
GCTTGCAGGAAAGCCTCAACGCGTCTTGACAAAAGGAGCCGAAGTCCAAGGA
AATCGAGAACGGTCACATCTTTCACAGTGAACGATCAGTTACCTCTAAGCTGC
ACCGTGTTAAGATCCAGACTGTGGCTGCCAAGCAAGGCGAGAGCGACCCCGAA
AGGAAGGAGACAAGACAGAAGGTGGACGATGACCGCAAGCACGAAATCGAGGC
TGCCATCGTCAGGATCATGAAGAGCAGAAAGAAGATGCAACACAACGTCTCTCG
TTGCTGAGGTCAACCAGCAACTCAAGGCCAGGTTCTTGCATCACCGGTTGTG
ATCAAGAAGAGAATCGAGGGTCTGATCGAGAGAGAATACTTGGCTAGGACTCC
AGAGGACAGAAAGGTTTACTTACGTTGCTTAAGCGGCCGC

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Clone Data Sheet

Protein name

<u>Protein</u>	Rbx1 1-108 (full length)
<u>Synonyms</u>	RNF75, ROC1
<u>Clone Number</u>	DU23263
<u>Species</u>	Human
<u>Accession Number</u>	P62877
<u>Tags</u>	N/A
Aminoacid sequence of the purified Rbx1	MAAAMDVDTPSGTNSGAGKKRFEVKKWNAVALWAWDIIVVDNCAICRNH IMDLCEIQANQASATSEECTVAWGVCNHAFHFHCISRWLKTRQVCPL DNREWEFQKYGH
Native sequence	in bold
Protease cleavage	N/A
Cloning sites	Nhe1 / Kpn1
DNA sequence of the Rbx1 insert	gctagc ATGGCGGCAGCGATGGATGTGGATACCCGAGCGGCACCAAC AGCGGCGCGGGCAAGAAGCGCTTTGAAGTGAAAAAGTGGAAATGCAGTA GCCCTCTGGGCCTGGGATATTGTGGTTGATAACTGTGCCATCTGCAGG AACCACATTATGGATCTTTGCATAGAATGTCAAGCTAACCAGGCGTCC GCTACTTCAGAAGAGTGTACTGTTCGCATGGGGAGTCTGTAACCATGCT TTTCACTTCCACTGCATCTCTCGCTGGCTCAAAACACGACAGGTGTGT CCATTGGACAACAGAGAGTGGGAATTCCAAAAGTATGGGCACTAG ggt acc