

Product datasheet for **RC600071**

ROS1 (NM_002944) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ROS1 (NM_002944) Human Tagged ORF Clone
Tag:	DDK-His
Symbol:	ROS1
Synonyms:	c-ros-1; MCF3; ROS
Vector:	pCMV6-XL5-DDK-His (PS100068)
E. coli Selection:	Ampicillin (100 ug/mL)
Cell Selection:	None
ORF Nucleotide Sequence:	>RC600071 representing leader sequence plus the extracellular domain region of NM_002944 Red=Cloning site Blue=ORF Green=Tags(s)

GTAATACGACTCACTATAGGGCGGCCGCGAATTCGTCGACTGGATCTGGTACCGAGGAGATCCGCCGCCG
CGATCGCC

ATGAAGAACATTTACTGTCTTATTCGGAAGCTTGCAATTTTGCAACTCTGGCTGCCTATGGATTTCTG
TGGTGCAGTGACAGTTTTAAATAGCTGCCTAAAGTCGTGTGTAACATACTGGGCCAGCAGCTTGACCT
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AACTGTGCTTTAAAGTGTCCGGAGTCGTGTGAGTTGGCTGTAGCAGCGCGGAAGGTGCATATGAAGAGG
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ACGATGGAAAATCTGCAAACCTTCTCTGGAGTAAAAATACATCATTCAAGTGGAAAATATGCACAACCTTCTGGGA
AGCTGGACTTATACTAAGACTGTGTCCAGACCGTCCTATGTGGTCAAGCCCCTGCACCCCTTCACTGAGT
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GACTCATCCTCATGGAGTCTGAACTGCACCTTTGATTAGGAATATTGAGAGCTCAAGTCCCAGACT
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GCAAAAATCAAAAATTAGATGCAGGACACAGAGAACCAGTTTCCAGTTTTACTCCACTTACCAAAATAC
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CTACCTCGCATCCCCTTTGCTGATGTGAAAAGTTTTGCTTGTGAAAACAATGACTTTCTTGTACAGATG
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CTTCATGCAGCCAAGGTCTGCTTATGTCTGTAATATCACAAATCTACAACCTTATACTTCATATAATGT
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 GGAGTCCCAAAATAAACAGGCATTCCCAAATTACTAGAAGGGAGTAAAAATCAATACAGTGGGAGAAAG
 CTGAAGATAATGGATGTAGAATTACATACTATATCCTTGAGATAAGAAAGAGCAGCTTCAAATAATTTACA
 GAACCAGAATTTAAGGTGAAGATGACATTTAATGGATCCTGCAGTAGTGTTCACATGGAAGTCCAAA
 AACCTGAAAGGAATTTTCAGTTCAGAGTAGTAGCTGCAAATAATCTAGGTTTGGTGAATATAGTGAA
 TCAGTGAGAATATTATATTAGTTGGAGATGATTTTTGGATACCAGAA

ACGCGTTCAGGGCGACTACAAGGATGACGACGATAAGGGATCTCATCATCACCATCACCATTAATGAGATC
 TGGTACCATATCAAGCTTGTGACTCTAGA

Protein Sequence:

>RC600071 representing signal peptide plus the extracellular domain region of
 NM_002944

Red=Cloning sites Green= DDK and 6XHis Tags

MKNIYCLIPKLVNFATLGLCLWISVVQCTVLNSCLKSCVTNLGQQLDLGTPHNLSEPCIQGFHNSVDQK
 NCALKRESCEVGCSSAEGAYEEVLENADLPTAPFASSIGSHNMTLRWKSANFSGVKYIIQWKYALLG
 SWTYTKTVSRPSYVVKPLHPFTEYIFRVVWIFTAQLQLYSPSPSYRTHPHGVPETAPLIRNIESSPDT
 VEVSWDPPQFPGGPILGYNLRLISKNQKLDAGTQRTSFQFYSTLPNTIYRFSIAAVNEVGEGPEAESIT
 TSSAVQEEQWFLSRKTSLRKSLKHLVDEAHCLRLDAIYHNITGISVDVHQIIVYFSEGTLIWAKKA
 ANMSDVSDLRIFYRGSGLISSISIDWL YQRMFYIMDELVCVCDLENCNIEEITPPSISAPQKIVADSYN
 GYVYLLRDGIYRADLPVPSGRCAEAVRIVESCTLKDFAIKPAKRRIIYFNDAQVFMSTFLDGSASHLI
 LPRIPFADVKSACENDFLVTGKVFQDALSFNEFIVGCDLSHIEEFGFGLNLFVFGSSQLHPLPGR
 PQELSVLFGSHQALVQWKPPALATGANVILISDIIELFELGPSAWQNWTYEVKVSTQDPPPEVTHIFLNIS
 GTMLNVPQLQSAMKYKVSVRASSPKRPGWSEPSVGTTLVPAEPPFIMAVKEDGLWSKPLNSFGPGEFL
 SSDIGNVSDMDWYNNLSYSDTKGDVFWLLNGTDISENYHLPSIAGAGALAFEWLGHFLYWAGKTYVIQ
 RQSVLTGHTDIVTHVKLLVNDMVVDSVGGYLYWTTLYSVESTRLNGESSLVLTQTPWFSGKKVIALTDL
 SDGLLYWLVQDSQCIHL YAVLRGQSTGDTTITEFAAWSTSEISQNALMYSSGRFLWINGFRITITQEIG
 QKTSVSVLEPARFNQFTIIQTSKPLPGNF SFTPKVIPDSVQESSFRIEIGNASSFQILWNGPPAVDWGVV
 FYSVEFSAHSKFLASEQHSPLVFTVEGLEPYALFNL SVTPYTYWKGPKTSLSLRAPETVPSAPENPRIF
 ILPSGKCCNKNEVVVEFRWNKPKHENGVLTKFEIFYNISNQSITNKTCEWIAVNVTPSVMSFQLEGMS
 RCFIAFQVRAFTSKGPGPYADVVKSTTSEINPFPHLITLLGNKIVFLDMDQNQVWVTFSAERVISAICYT
 ADNEMGYAEGDSLFLHLHNRSSSELFQDSLVDITVITIDWISRHL YFALKESQNGMQVFDVLEHKV
 KYPREVKIHNRNSTIISFSVYPLL SRLYWTEVSNFGYQMFYYSIISHTLHRILQPTATNQKRNQCSCN
 VTEFELSGAMAIDTSNLEKPLIYFAKAQEIWAMDLEGCQCWRVITVPAMLAGKTLVSLTVDGDLYWIIT
 AKDSTQIYQAKKGNGAIVSQVKALRSRHILAYSSVMQPPDKAFLSLASDTVEPTILNATNTSLTIRLPL
 AKTNLTWYGITSPPTYL VVYAEVNDKNSDLKYRILEFQDSIALIEDLQPFSTYMIQI AVKNYSDPL
 EHLPPGKEIWGKTNGVPEAVQLINTTVRSDSLII SWRESHKPNPKESVRYQLAISHLALIPETPLRQ
 SEFPNGRLTLLVTRL SGGNIYVLKVLACHSEEMWCTESHPTVEMFNTPEKPYSLVPENTSLQFNWKAPL
 NVNLI RFWVELQWKYNEFYHVKTSCSQGPAYVCNITNLQPYTSYNVRVVVYKTKGENSTSLPESFKTKA
 GVPNKP GIPKLL EGSKNSIQWEKAEDNGCRITYYILEIRKSTSNLQNLQNLRWKMTFNGSCSSVCTWKS
 NLKGIFQFRVVAANLGFGEYSIGISENIILVGDDFWIPE

TRSGTRSGDYKDDDDKGSHHHHHH

Restriction Sites:

SgfI-MluI

RefSeq:	NM_002944.2 , NP_002935.2
RefSeq Size:	7368 bp
RefSeq ORF:	7044 bp
Locus ID:	6098
UniProt ID:	P08922
Cytogenetics:	6q22.1
Protein Families:	Druggable Genome, Protein Kinase, Transmembrane
MW:	209.2 kDa
Gene Summary:	This proto-oncogene, highly-expressed in a variety of tumor cell lines, belongs to the sevenless subfamily of tyrosine kinase insulin receptor genes. The protein encoded by this gene is a type I integral membrane protein with tyrosine kinase activity. The protein may function as a growth or differentiation factor receptor. [provided by RefSeq, Jul 2008]