

MRC PPU Reagents and Services

Clone Data Sheet

ALK2 [175 - 509]

<u>Protein</u>	ALK2 [175 - 509]
<u>Clone Number</u>	DU 19351
<u>Species</u>	Human
<u>Accession number</u>	NM_001105.5
<u>Tags</u>	N-terminal His(6)
<u>Baculovirus expressed protein</u>	MSYYHHHHHDYDIPTTENLYFQGAMGSMVGDSTLADLLDHSC TSGSGS GLPFLVQRTVARQITLLECVGKGRYGEVWRG SWQGENVAVKIFSSRDEK SWFRETELYNTVMLRHENILGF IASDMTSRHSS TQLWLITHYHEMGS LY DYLQLTTLDTVSCLRIVLSIASGLAHLHIEIFGTQ GKPAIAHRDLKSKN ILVKKNGQCC IADLGLAVMHSQSTNQLDVGNNPRVGT KRYMAPEVLDET IQVDCFD SYKRVDI WAFGLVLWEVARRMVSNGI VEDYKPPFYDVVPNDP SFEDMRKVVCVDQQRPNIPNRWFS DPTLTSLAKLMKECWYQNPSARLTA LRIKKT LTKIDNSLDKLTDC
<u>Native sequence</u>	Amino acids V175 – C509 (end) of human ALK2. Residue V30 of fusion protein is equivalent to V175 of the native enzyme. The His(6) tag is located at residues 5 – 10.
<u>Protease cleavage</u>	rTEV (<u>ENLYFQG</u>) residues 18 - 24
<u>Cloning sites</u>	<i>Bam</i> H1 and <i>Not</i> 1 site of pFastBAC HTb

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Nucleotide
sequence of
insert

ggatccatgGTTGGAGACAGCACTTTAGCAGATTTATTGGATCATTCGT
GTACATCAGGAAGTGGCTCTGGTCTTCCTTTTCTGGTACAAAGAACAGT
GGCTCGCCAGATTACACTGTTGGAGTGTGTCTGGGAAAGGCAGGTATGGT
GAGGTGTGGAGGGGCAGCTGGCAAGGGGAGAATGTTGCCGTGAAGATCT
TCTCCTCCCGTGATGAGAAGTCATGGTTCAGGGAAACGGAATTGTACAA
CACTGTGATGCTGAGGCATGAAAATATCTTAGGTTTCATTGCTTCAGAC
ATGACATCAAGACACTCCAGTACCCAGCTGTGGTTAATTACACATTATC
ATGAAATGGGATCGTTGTACGACTATCTTCAGCTTACTACTCTGGATAC
AGTTAGCTGCCTTCGAATAGTGCTGTCCATAGCTAGTGGTCTTGACAT
TTGCACATAGAGATATTTGGGACCCAAGGGAAACCAGCCATTGCCCATC
GAGATTTAAAGAGCAAAAATATTCTGGTTAAGAAGAATGGACAGTGTTG
CATAGCAGATTTGGGCCTGGCAGTCATGCATTCCCAGAGCACCAATCAG
CTTGATGTGGGAACAATCCCCGTGTGGGCACCAAGCGCTACATGGCCC
CCGAAGTCTAGATGAAACCATCCAGGTGGATTGTTTCGATTCTTATAA
AAGGGTCGATATTTGGGCCTTTGGACTTGTTTTGTGGGAAGTGGCCAGG
CGGATGGTGAGCAATGGTATAGTGGAGGATTACAAGCCACCGTTCTACG
ATGTGGTTCCTCAATGACCCAAGTTTTGAAGATATGAGGAAGGTAGTCTG
TGTGGATCAACAAAGGCCAAACATACCCAACAGATGGTTCTCAGACCCG
ACATTAACCTCTCTGGCCAAGCTAATGAAAGAATGCTGGTATCAAAATC
CATCCGCAAGACTCACAGCACTGCGTATCAAAAAGACTTTGACCAAAAT
TGATAATTCCTCGACAAATTGAAAACCTGACTGTTgagcggccgc