

MRCPPU Reagents and Services

Clone Data Sheet

AAK1 [1 - 365]

<u>Protein</u>	AAK1 [1 - 365]
<u>Clone number</u>	DU 61573
<u>Species</u>	Human
<u>Accession number</u>	NM_014911.3
<u>Tags</u>	N-terminal GST
<u>Bacterially expressed protein</u>	<p>MSPILGYWKIKGLVQPTRLLEYLEEKYEEHLYERDEGDKWRNKKFELG LEFPNLPYYIDGDVKLTQSMAIIRYIADKHNMLGGCPKERAETSMLEGA VLDIRYGVSR IAYSKDFETLKVDFLSKLPEMLKMFEDRLCHKTYLNGDH VTHPDFMLYDALDVVLYMDPMCLDAFPKLVCFKKRIEAIPOIDKYLKSS KYIAWPLQGWQATFGGGDHPPKSDLEVL FQGPLGSMKKFFDSRREQGS GLGSGSSGGGSGTSGLGSYIGRVFGIGRQQVTVEVLAEGGFAIVFLV RTSNGMKCALKRMFVNNEHDLQVCKREIQIMRDLSGHKNIVGYIDSSIN NVSSGDVWEVLILMDFCRGGQVNL MNQRLQTGFTENEVLQIFCDTCEA VARLHQCKTPIIHRDLKVENILLHDRGHYVLCDFGSATNKFQNPQTEGV NAVEDEIKKYTTLSYRAPEMVNLYSGKIITTKADIWALGCLLYKLCYFT LPFGESQVAICDGNFTIPDNSRYSQDMHCLIRYMLEPDPDKRPDIYQVS YFSFKLLKKECPIPNVQNSPIPAKLPEPVKASEAAAKKTQPKARLTDP PTTETSIA</p>
<u>Native sequence</u>	Amino acids M1 – A365 (end residue is L961) of human AAK1. Residue M232 of the fusion protein is equivalent to M1 of the native enzyme. The GST tag is located at residues 1 – 220.
<u>Protease cleavage</u>	PreScission (<u>LEVLFQGP</u>) residues 221 – 228
<u>Cloning sites</u>	<i>Bam</i> H1 and <i>Not</i> I sites of pFastBac-GST

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Nucleotide Sequence Of Insert

ggatccATGAAGAAGTTTTTCGACTCCCGGCGAGAGCAGGGCGGCTCTG
GCCTGGGCTCCGGCTCCAGCGGAGGAGGGGGCAGCACCTCGGGCCTGGG
CAGTGGCTACATCGGAAGAGTCTTCGGCATCGGGCGACAGCAGGTCACA
GTGGACGAGGTGTTGGCGGAAGGTGGATTTGCTATTGTATTTCTGGTGA
GGACAAGCAATGGGATGAAATGTGCCTTGAAACGCATGTTTGTCAACAA
TGAGCATGATCTCCAGGTGTGCAAGAGAGAAATCCAGATAATGAGGGAT
CTTTCAGGACACAAGAATATTGTGGGTTACATTGATTCTAGTATCAACA
ACGTGAGTAGCGGTGATGTATGGGAAGTGCTCATTCTGATGGACTTTTG
TAGAGGTGGCCAGGTGGTAAACCTGATGAACCAGCGCCTGCAAACAGGC
TTTACAGAGAATGAAGTGCTCCAGATATTTTGTGATACCTGTGAAGCTG
TTGCCCGCCTGCATCAGTGCAAACTCCTATTATCCACCGGGACCTGAA
GGTTGAAAACATCCTCTTGCATGACCGAGGCCACTATGTCCTGTGTGAC
TTTGGAAGCGCCACCAACAAATTCAGAATCCACAACTGAGGGAGTCA
ATGCAGTAGAAGATGAGATTAAGAAATACACAACGCTGTCCTATCGAGC
ACCAGAAATGGTCAACCTGTACAGTGGCAAAATCATCACTACGAAGGCA
GACATTTGGGCTCTTGGATGTTTGTGTATAAATTATGCTACTTCACTT
TGCCATTTGGGGAAAGTCAGGTGGCAATTTGTGATGGAACTTCACAAT
TCCTGATAATTCTCGATATTCTCAAGACATGCACTGCCTAATTAGGTAT
ATGTTGGAACCAGACCCTGACAAAAGGCCGGATATTTACCAGGTGTCCT
ACTTCTCATTTAAGCTACTCAAGAAAGAGTGCCCAATTCCAAATGTACA
GAACTCTCCATTCCTGCAAAGCTTCCTGAACCAGTGAAAGCCAGTGAG
GCAGCTGCAAAAAAGACCCAGCCAAAGGCCAGACTGACAGATCCCATTC
CCACCACAGAGACTTCAATTGCAtgagcggccgc