Division of Signal Transduction Therapy

Standard Operation Procedure

Preparation of NFE2L2 (1-605 = full length)

Enzyme description:- NFE2L2

Clone number:- DU23113

Source:- Recombinant

Tag:- N-terminal GST

Purification method:- GSH- Sepharose, protease treatment, SEC

Expression level:- 0.3 mg/L

Calculated molecular mass:-

Monoisotopic	67784 Da
Average Mass	67824 Da

[cysteines reduced, methionines have not been oxidised]

Theoretical pI:- 4.59

Purity:- 90 %

Enzyme storage buffer:-

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

Storage temperature:- -80ºC

Assay:-

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Clone Data Sheet

Protein name NFE2L2 1- 605 (full length)

Protein	NFE2L2 (full length)
Synonyms	NRF2
Clone Number	DU23113
Species	Human
Accession Number	Protein: Q16236 Gene: NM_006164.3
Tags	cleaved from N-terminal GST
Aminoacid sequence of the expressed protein	**MMDLELPPPGLPSQQDMDLIDILWRQDIDLGVSREVFDFSQRRKEYELEK QKKLEKERQEQLQKEQEKAFFAQLQLDEETGEFLPIQPAQHIQSETSGSA NYSQVAHIPKSDALYFDDCMQLLAQTFPFVDDNEVSSATFQSLVPDIPGH IESPVFIATNQAQSPETSVAQVAPVDLDGMQQDIEQVWEELLSIPELQCL NIENDKLVETTMVPSPEAKLTEVDNYHFYSSIPSMEKEVGNCSPHFLNAF EDSFSSILSTEDPNQLTVNSLNSDATVNTDFGDEFYSAFIAEPSISNSMP SPATLSHSLSELLNGPIDVSDLSLCKAFNQNHPESTAEFNDSDSGISLNT SPSVASPEHSVESSSYGDTLLGLSDSEVEELDSAPGSVKQNGPKTPVHSS GDMVQPLSPSQGQSTHVHDAQCENTPEKELPVSPGHRKTPFTKDKHSSRL EAHLTRDELRAKALHIPFPVEKIINLPVVDFNEMMSKEQFNEAQLALIRD IRRRGKNKVAAQNCRKRKLENIVELEQDLDHLKDEKEKLLKEKGENDKSL HLLKKQLSTLYLEVFSMLRDEDGKPYSPSEYSLQQTRDGNVFLVPKSKKP DVKKN**
Native sequence	in bold
Protease cleavage	TEV
Cloning sites	BamH1 / Not1

DNA sequence of the expression cassette

atgtcccctatactaggttattggaaaattaagggccttgtgcaacccact
cgacttcttttggaatatcttgaagaaaaatatgaagagcatttgtatgag
cgcgatgaaggtgataaatggcgaaacaaaaagtttgaattgggtttggag
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