

Division of Signal Transduction Therapy

Standard Operation Procedure

Preparation of NFE2L2 (1-605 = full length)

<u>Enzyme description:-</u>	GST-NFE2L2
<u>Clone number:-</u>	DU23113
<u>Source:-</u>	Recombinant
<u>Tag:-</u>	N-terminal GST
<u>Purification method:-</u>	GSH- Sepharose
<u>Expression level:-</u>	0.5 mg/L
<u>Calculated molecular mass:-</u>	
Monoisotopic	94388 Da
Average Mass	94446 Da
[cysteines reduced, methionines have not been oxidised]	
<u>Theoretical pI:-</u>	4.77
<u>Purity:-</u>	90 %
<u>Enzyme storage buffer:-</u>	
50 mM HEPES pH 7.5, 10% glycerol, 150mM NaCl, 1mM DTT	
<u>Storage temperature:-</u>	-80°C
<u>Assay:-</u>	

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Clone Data Sheet

Protein name NFE2L2 1- 605 (full length)

<u>Protein</u>	GST-NFE2L2 (full length)
<u>Synonyms</u>	NRF2
<u>Clone Number</u>	DU23113
<u>Species</u>	Human
<u>Accession Number</u>	Protein: Q16236 Gene: NM_006164.3
<u>Tags</u>	N-terminal GST
Aminoacid sequence of the expressed protein	MSPILGYWKIKGLVQPTRLLLEYLEEKYEEHLYERDEGDKWRNKKFELGL EFPNLPYYIDGDVKLTQSMAIIRYIADKHNMLGGCPKERAIEISMLEGAVL DIRYGVSRIAYS KDFETLKVDFLSKLPEMLKMFEDRLCHKTYLNGDHVTH PDFMLYDALDVVLYMDPMCLDAFPKLVCFKKRIEAIPOIDKYLKSSKYIA WPLQGWQATFGGGDHPPKSDGSENLYFQ MDLELPPGGLPSQQDMDLIDI LWRQDIDLGVSREVFDFSQRRKEYELEKQKKLEKERQEQLOKEQEKAFFA QLQLDEETGEFLPIQPAQHIOSETSGSANYSQVAHIPKSDALYFDDCMQL LAQTFPFVDDNEVSSATFQSLVPDIPGHIESPVFIATNQAQSPETSVAQV APVDLDGMQODIEQVWEELLSIPELQCLNIENDKLVETTMVPSPPEAKLTE VDNYHFYSSIPSMEKEVGNCSPHFLNAFEDSFSSILSTEDPNQLTVNSLN SDATVNTDFGDEFYSAFIAEPSISNSMPSPATLSHSLSELLNGPIDVSDL SLCKAFNQNHPESTAEFNDSDSGISLNTSPSVASPEHSVESSSYGDTLLG LSDSEVEELDSAPGSVKQNGPKTPVHSSGDMVQPLSPSQGQSTHVHDAQC ENTPEKELPVSPGHRKTPFTKDKHSSRLEAHLTRDELRAKALHIPFPVEK IINLPVVDFNEMMSKEQFNEAQLALIRDIRRGKNKVAAQNCRKRLKLENI VELEQDL DHLKDEKEKLLKEKGENDKSLHLLKKQLSTLYLEVFSMLRDED GKPYS PSEYSLQQTRDGNVFLVPKSKKPDVKKN
Native sequence	in bold
Protease cleavage	TEV protease site underlined
Cloning sites	BamH1 / Not1

**DNA sequence of
the expression
cassette**

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