

*Division of Signal Transduction Therapy*

**Standard Operating Procedure**

**Preparation of FKHR [2 - 655]**

<b><u>Protein description:-</u></b>	FKHR [2 - 655]
<b><u>Clone number:-</u></b>	DU 1725
<b><u>Source:-</u></b>	Recombinant
<b><u>Expression system:-</u></b>	<i>E.coli</i>
<b><u>Tag:-</u></b>	N-terminal GST and C-terminal His(6)
<b><u>Purification method:-</u></b>	GSH Sepharose and Ni <sup>2+</sup> -NTA agarose
<b><u>Expression level:-</u></b>	1 mg/L
<b><u>Calculated molecular mass:-</u></b>	97, 115 daltons
<b><u>Purity:-</u></b>	85 %
<b><u>Enzyme storage buffer:-</u></b>	
	50 mM Tris-HCl pH 7.5, 270 mM Sucrose, 150 mM NaCl, 0.1 mM EGTA, 0.1 % 2-mercaptoethanol, 0.02 % Brij-35, 0.2 mM PMSF, 1 mM Benzamidine.
<b><u>Storage temperature:-</u></b>	-70 °C

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**CLONE DATA SHEET**

**FKHR [2 - 655]**

**Protein** FKHR [2 - 655]

**Clone number** DU 1725

**Species** Human

**Accession number** NM\_002015

**Tags** N-terminal GST and C-terminal His(6)

**Bacterially  
expressed protein**

MSPILGYWKIKGLVQPTRLLEYLEEKYEEHLYERDEGDKWRNKKFEL  
GLEFPNLPYYIDGDVKLTQSMAIIRYIADKHNMLGGCPKERAETISMLE  
GAVLDIRYGVSR IAYS KDFETLKVDFLSKLP EMLKMFEDRLCHKTYLN  
GDHVTHPDFMLYDALDVVLYMDPMCLDAFPKLVCFKKRIEAI PQIDKY  
LKSSKYIAWPLQGWQATFGGGDHPKSDLEVL FQGPLGS **AEAPQVVEI**  
**DPDFEPLPRPR SCTWPLPRPEFSQSNSATSSPAPSGSAAANPDAAAGL**  
**PSASAAAVSADFMSNLSLLEESDFPQAPGSVAAAVAAAAAAATGGL**  
**CGDFQGPEAGCLHPAPPQPPPGPLSQHPPVPPAAAGPLAGQPRKSSS**  
**SRRNAWGNLSYADLITKAI ESSAEKRLTLSQIYEWVKSVPYFKDKGD**  
**SNSSAGWKNSIRHNL SLHSK F IRVQNEGTGKSSWWMLNPEGGKSGKSP**  
**RRRAASMDNNSKFAKRSRAAKKASLQSGQEGAGDSPGSQF SKWPAS**  
**PGSHSNDDFDNWSTFRPRTSSNASTISGRLSPIMTEQDDLGEADVHSM**  
**VYPPSAAKMASTLPSLSEISNPENMENLLDNLNLLSSPTSLTVSTQSS**  
**PGTMMQQTPCYSFAPPNTSLNSPSPNYQKYTYGQSSMSPLPQMPIQTL**  
**QDNKSSYGGMSQYNCAPGLLKELTSDSPPHNDIMTPVDPGVAQPNSR**  
**VLGQNVMMGPNSVMSTYGSQASHNKMMNPSSHHPGHAQQTSAVNGRP**  
**LPHTVSTMPHTSGMNRLTQVKTPVQVPLPHPMQMSALGGYSSVSSCNG**  
**YGRMGLLHQEKLPSDL DGMFIERLDCDMESIIRNDLMDGDTLDFNFDN**  
**VLPNQSFPHSVKTTTHSWVSGHHHHHH**

**Native sequence** Amino acids A2 – G655 (end) of human FKHR.  
Residues A232 of the fusion protein is equivalent to A2 of the native  
protein. The GST tag is located at residues 1 – 220 and the His(6) tag is  
located at residues 886 – 891.

**Protease cleavage** PreScission (LEVL FQGPL) residues 221 - 229

**Cloning sites** *Bam*HI and *Sal*I sites of pGEX 6P-1

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**Nucleotide  
sequence**

Re-sequencing the clone at present