

## Product datasheet for **TP314458M**

### FGR (NM\_005248) Human Recombinant Protein

#### Product data:

**Product Type:** Recombinant Proteins  
**Description:** Recombinant protein of human Gardner-Rasheed feline sarcoma viral (v-fgr) oncogene homolog (FGR), transcript variant 1, 100 µg  
**Species:** Human  
**Expression Host:** HEK293T  
**Expression cDNA Clone or AA Sequence:** >RC214458 representing NM\_005248  
**Red**=Cloning site **Green**=Tags(s)

MGCVFCKKLEPVATAKEDAGLEGDFRSYGAADHYGPDPTKARPASSFAHIPNYSNFSSQAINPGFLDSGT  
IRGVSGIGVTLFIALYDYEARTEDDLTFTKGEKFHILNNTEGDWWEARSLSSGKTGCIPSNYVAPVDSIQ  
AEEWYFGKIGRKAERQLLSPGNPQGAFLIRESETTKGAYSLSIRDWDQTRGDHVKHYKIRKLDMGYYI  
TTRVQFNSVQELVQHYMEVNDGLCNLLIAPCTIMKPQTLGLAKDAWEISRSSITLERRLGTGCFGDVWL  
GQDLRLPQLVDMAAQVAEGMAYMERMNYIHRDLRAANILVGERLACKIADFLARLIKDDDEYNPCQGSKF  
PIKWTAPEAALFGRFTIKSDVWSFGILLTELITKGRIPYPGMNMKREVLEQVEQGYHMPCCPGCPASLYEA  
MEQWRLDPEERPTFEYLQSFLEDYFTSAEPQYQPGDQT

**TRTRPLEQKLISEEDLAANDILDYKDDDDKV**

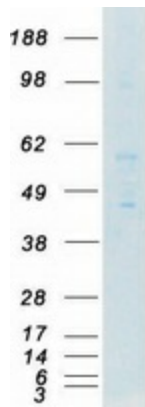
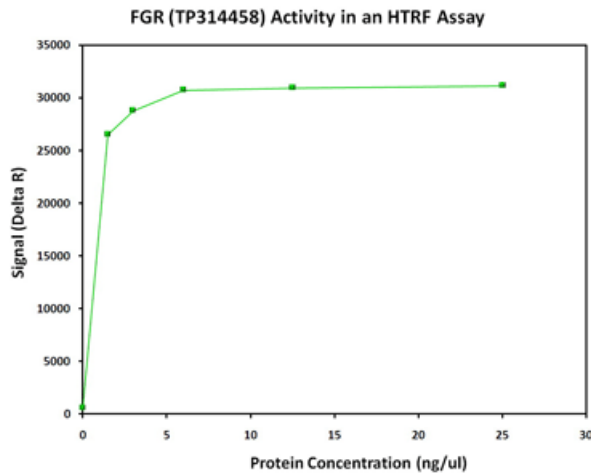
**Tag:** C-Myc/DDK  
**Predicted MW:** 59.3 kDa  
**Concentration:** >0.05 µg/µL as determined by microplate BCA method  
**Purity:** > 80% as determined by SDS-PAGE and Coomassie blue staining  
**Buffer:** 25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol



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<b>Bioactivity:</b>	FGR activity verified in a biochemical assay: <b>FGR (Gardner-Rasheed feline sarcoma viral (v-fgr) oncogene homolog)</b> (TP314458) activity was measured in a homogeneous time-resolved fluorescent (HTRF®) assay. FGR is a tyrosine kinase that is a member of the Src family of protein tyrosine kinases. Varying concentrations of FGR were added to a reaction mix containing ATP and a biotinylated kinase substrate and the reaction mixture was incubated to allow the protein to phosphorylate the substrate. HTRF detection reagents were then added, and the time-resolved fluorescent signal was measured on a Flexstation 3 microplate reader. The time resolved fluorescent signal is expressed as “delta R” or “ΔR” and is a ratio calculated from the fluorescent emission intensities of the donor and acceptor fluorors.
<b>Preparation:</b>	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
<b>Note:</b>	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
<b>Storage:</b>	Store at -80°C.
<b>Stability:</b>	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
<b>RefSeq:</b>	<a href="#">NP_005239</a>
<b>Locus ID:</b>	2268
<b>UniProt ID:</b>	<a href="#">P09769</a>
<b>RefSeq Size:</b>	2354
<b>Cytogenetics:</b>	1p35.3
<b>RefSeq ORF:</b>	1587
<b>Synonyms:</b>	c-fgr; c-src2; p55-Fgr; p55c-fgr; p58-Fgr; p58c-fgr; SRC2
<b>Summary:</b>	This gene is a member of the Src family of protein tyrosine kinases (PTKs). The encoded protein contains N-terminal sites for myristylation and palmitoylation, a PTK domain, and SH2 and SH3 domains which are involved in mediating protein-protein interactions with phosphotyrosine-containing and proline-rich motifs, respectively. The protein localizes to plasma membrane ruffles, and functions as a negative regulator of cell migration and adhesion triggered by the beta-2 integrin signal transduction pathway. Infection with Epstein-Barr virus results in the overexpression of this gene. Multiple alternatively spliced variants, encoding the same protein, have been identified. [provided by RefSeq, Jul 2008]
<b>Protein Families:</b>	Druggable Genome, Protein Kinase
<b>Protein Pathways:</b>	Chemokine signaling pathway

Product images:



Coomassie blue staining of purified FGR protein (Cat# [TP314458]). The protein was produced from HEK293T cells transfected with FGR cDNA clone (Cat# [RC214458]) using MegaTran 2.0 (Cat# [TT210002]).