

#### OriGene Technologies, Inc.

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# Product datasheet for TP324418

### KGF (FGF7) (NM\_002009) Human Recombinant Protein

#### **Product data:**

| Description:Recombinant protein of human fibroblast growth factor 7 (keratinocyte growth factor) (FGF7),<br>20 µgSpecies:HumanExpression Host:HEX293TExpression cDNA Closs<br>or AA Sequence:Rec224418 representing NM_002009<br>Red=Cloning site Green=Tags(s)RetWill:TWILPTLLYRSCFHIICLVGTISLACNDMTPEQMATNVNCSSPERHTRSYDYMEGGDIRVRRLF<br>CRTQWVLRIDKRGKVKGTQEMKNNYNIMEIRTVAVGVAIKGVESEFYLAMMNKEGKLYAKKEONEDCNFK<br>ELLENHVNTVASAKWTHNGGEMFVALNQKGIPVRGKKTKKEQKTAHFLPMAITTag:C-Myc/DDKPredicted MW:38.8 baConcentration:>0.05 µg/µL as determined by microplate BCA methodPurity:Som a stermined by SDS-PAGE and Coomassie blue stainingBuffer:Som Mitris-HCI, 100 mM glycine, pH 7.3, 10% glycerolPreparation:For testing in cell culture applications, please filter before use. Note that you may experience<br>some loss of protein during the filtration process.Storage:Stole of 12 months from the date of receipt of the product under proper storage and<br>handing conditions. Avoid repeated freeze-thaw cycles.RefSeq:NP02000Locus ID:2522UniProt ID:21781 | Product Type:    | Recombinant Proteins                                                   |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|------------------------------------------------------------------------|
| Expression Host:HEK293TExpression CDNA ClossRC224418 representing NM_002009<br>Red=Cloning site Green=Tags(s)MHKWILTWILPTLLYRSCFHIICLVGTISLACNDMTPEQMATINVNCSSPERHTRSYDYMEGGDIRVRRLF<br>CRTQWYLRIDKRGKVKGTQEMKNNYNIMEIRTVAAGIVAIKGVESEFYLAMNKEGKLYAKKECNEDCNFKK<br>ELILENHYNTYASAKWTHNGGEMFVALNQKGIPVRGKTKKEQKTAHFLPMAITTag:OMFredicted MW:8.8 kDaConcentration:>0.05 µg/µL as determined by microplate BCA methodPurity:>80% as determined by SDS-PAGE and Coomassie blue stainingBuffer:0.05 µg/µL as determined by microplate BCA methodNote:Sc mothinat protein was captured through anti-DDK affinity column followed by<br>conventional chromatography steps.Note:Sor esting in cell culture applications, please filter before use. Note that you may experience<br>some loss of protein during the filtration process.Storage:Stora t-80°C.Stability:Stable for 12 months from the date of receipt of the product under proper storage and<br>handing conditions. Avoid repeated freeze-thaw cycles.RefSeq:M.P.002000Locus ID:252                               | Description:     |                                                                        |
| Pression cDNA CloneRc224418 representing NM_002009<br>Rcd=Cloning site Green=Tags(s)MHKWILTWILPTLLYRSCFHIICLVGTISLACNDMTPEQMATNVNCSSPERHTRSYDYMEGGDIRVRRLF<br>CTQWYLRIDKRGKVKGTQEMKNNYNIMEIRTVAVGIVAIKGVESEFYLAMNKEGKLYAKKECNEDCNFK<br>LILENHYNTYASAKWTHNGGEMFVALNQKGIPVRGKKTKKEQKTAHFLPMAITTag:TRTRPLEQKLISEEDLAANDILDYKDDDDKVTag:C-Myc/DDKPredicted MW:18.8 kDaConcentration:>0.05 µg/µL as determined by microplate BCA methodPurity:>80% as determined by SDS-PAGE and Coomassie blue stainingBuffer:25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerolPreparation:For testing in cell culture applications, please filter before use. Note that you may experience<br>some loss of protein during the filtration process.Storage:Stora et -80°C.Stability:Stable for 12 months from the date of receipt of the product under proper storage and<br>handling conditions. Avoid repeated freeze-thaw cycles.RefSeq:MP 002000Locus ID:252                                                                                                                           | Species:         | Human                                                                  |
| or AA Sequence:Red=Cloning site Green=Tags(s)MHKWILTWILPTLLYRSCFHIICLVGTISLACNDMTPEQMATNVNCSSPERHTRSYDYMEGGDIRVRRLF<br>CRTQWYLRIDKRGKVKGTQEMKNNYNIMEIRTVAVGIVAIKGVESEFYLAMNKEGKLYAKKECNEDCNFK<br>ELILENHYNTYASAKWTHNGGEMFVALNQKGIPVRGKKTKKEQKTAHFLPMAITTag:C-Myc/DDKTag:C-Myc/DDKPredicted MW:18.8 kDaConcentration:>0.05 µg/µL as determined by microplate BCA methodPurity:>80% as determined by SDS-PAGE and Coomassie blue stainingBuffer:25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerolPreparation:Recombinant protein was captured through anti-DDK affinity column followed by<br>conventional chromatography steps.Note:Storage:Storage:Storage:Store at -80°C.Stability:Stable for 12 months from the date of receipt of the product under proper storage and<br>handling conditions. Avoid repeated freeze-thaw cycles.RefSeq:NP_002000Locus ID:2252                                                                                                                                                                                                    | Expression Host: | HEK293T                                                                |
| CRTQWYLRIDKRGKVKGTQEMKNNYNIMEIRTVAVGIVAIKGVESEFYLAMNKEGKLYAKKECNEDCNFK<br>ELILENHYNTYASAKWTHNGGEMFVALNQKGIPVRGKKTKKEQKTAHFLPMAITTRTRPLEQKLISEEDLAANDILDYKDDDDKVTag:C-Myc/DDKPredicted MW:18.8 kDaConcentration:>0.05 µg/µL as determined by microplate BCA methodPurity:>80% as determined by SDS-PAGE and Coomassie blue stainingBuffer:25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerolPreparation:Recombinant protein was captured through anti-DDK affinity column followed by<br>conventional chromatography steps.Note:For testing in cell culture applications, please filter before use. Note that you may experience<br>some loss of protein during the filtration process.Storage:Storage is conditions. Avoid repeated freeze-thaw cycles.RefSeq:NP 002000Locus ID:252                                                                                                                                                                                                                                                                                   | -                |                                                                        |
| Tag:C-Myc/DDKPredicted MW:18.8 kDaConcentration:>0.05 µg/µL as determined by microplate BCA methodPurity:>80% as determined by SDS-PAGE and Coomassie blue stainingBuffer:25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerolPreparation:Recombinant protein was captured through anti-DDK affinity column followed by<br>conventional chromatography steps.Note:For testing in cell culture applications, please filter before use. Note that you may experience<br>some loss of protein during the filtration process.Storage:Store at -80°C.Stability:Stable for 12 months from the date of receipt of the product under proper storage and<br>handling conditions. Avoid repeated freeze-thaw cycles.RefSeq:NP 002000Locus ID:252                                                                                                                                                                                                                                                                                                                                  |                  | CRTQWYLRIDKRGKVKGTQEMKNNYNIMEIRTVAVGIVAIKGVESEFYLAMNKEGKLYAKKECNEDCNFK |
| Predicted MW:18.8 kDaConcentration:>0.05 µg/µL as determined by microplate BCA methodPurity:>80% as determined by SDS-PAGE and Coomassie blue stainingBuffer:25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerolPreparation:Recombinant protein was captured through anti-DDK affinity column followed by<br>conventional chromatography steps.Note:For testing in cell culture applications, please filter before use. Note that you may experience<br>some loss of protein during the filtration process.Storage:Store at -80°C.Stability:Stable for 12 months from the date of receipt of the product under proper storage and<br>handling conditions. Avoid repeated freeze-thaw cycles.RefSeq:NP 002000Locus ID:2252                                                                                                                                                                                                                                                                                                                                              |                  | TRTRPLEQKLISEEDLAANDILDYKDDDDKV                                        |
| Concentration:>0.05 µg/µL as determined by microplate BCA methodPurity:> 80% as determined by SDS-PAGE and Coomassie blue stainingBuffer:25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerolPreparation:Recombinant protein was captured through anti-DDK affinity column followed by<br>conventional chromatography steps.Note:For testing in cell culture applications, please filter before use. Note that you may experience<br>some loss of protein during the filtration process.Storage:Store at -80°C.Stability:Stable for 12 months from the date of receipt of the product under proper storage and<br>handling conditions. Avoid repeated freeze-thaw cycles.RefSeq:NP 002000Locus ID:2252                                                                                                                                                                                                                                                                                                                                                                  | Tag:             | C-Myc/DDK                                                              |
| Purity:> 80% as determined by SDS-PAGE and Coomassie blue stainingBuffer:25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerolPreparation:Recombinant protein was captured through anti-DDK affinity column followed by<br>conventional chromatography steps.Note:For testing in cell culture applications, please filter before use. Note that you may experience<br>some loss of protein during the filtration process.Storage:Store at -80°C.Stability:Stable for 12 months from the date of receipt of the product under proper storage and<br>handling conditions. Avoid repeated freeze-thaw cycles.RefSeq:NP 002000Locus ID:2252                                                                                                                                                                                                                                                                                                                                                                                                                                  | Predicted MW:    | 18.8 kDa                                                               |
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| Note:For testing in cell culture applications, please filter before use. Note that you may experience<br>some loss of protein during the filtration process.Storage:Store at -80°C.Stability:Stable for 12 months from the date of receipt of the product under proper storage and<br>handling conditions. Avoid repeated freeze-thaw cycles.RefSeq:NP 002000Locus ID:2252                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Buffer:          | 25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol                   |
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| Stability:Stable for 12 months from the date of receipt of the product under proper storage and<br>handling conditions. Avoid repeated freeze-thaw cycles.RefSeq:NP 002000Locus ID:2252                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Note:            |                                                                        |
| handling conditions. Avoid repeated freeze-thaw cycles.RefSeq:NP 002000Locus ID:2252                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Storage:         | Store at -80°C.                                                        |
| Locus ID: 2252                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Stability:       |                                                                        |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | RefSeq:          | <u>NP 002000</u>                                                       |
| UniProt ID: <u>P21781</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Locus ID:        | 2252                                                                   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | UniProt ID:      | <u>P21781</u>                                                          |



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|                   | KGF (FGF7) (NM_002009) Human Recombinant Protein – TP324418                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|-------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| RefSeq Size:      | 3853                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Cytogenetics:     | 15q21.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| RefSeq ORF:       | 582                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Synonyms:         | HBGF-7; KGF                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Summary:          | The protein encoded by this gene is a member of the fibroblast growth factor (FGF) family. FGF family members possess broad mitogenic and cell survival activities, and are involved in a variety of biological processes, including embryonic development, cell growth, morphogenesis, tissue repair, tumor growth and invasion. This protein is a potent epithelial cell-specific growth factor, whose mitogenic activity is predominantly exhibited in keratinocytes but not in fibroblasts and endothelial cells. Studies of mouse and rat homologs of this gene implicated roles in morphogenesis of epithelium, reepithelialization of wounds, hair development and early lung organogenesis. [provided by RefSeq, Jul 2008] |
| Protein Families: | Adult stem cells, Druggable Genome, Embryonic stem cells, ES Cell Differentiation/IPS,<br>Secreted Protein                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Protein Pathways  | s: MAPK signaling pathway, Melanoma, Pathways in cancer, Regulation of actin cytoskeleton                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |

## **Product images:**

| 116 - | _ |  |
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| 66 -  | _ |  |
| 45 -  | _ |  |
| 35 -  | _ |  |
| 25 -  | _ |  |
| 18 -  | _ |  |
|       |   |  |

Coomassie blue staining of purified FGF7 protein (Cat# TP324418). The protein was produced from HEK293T cells transfected with FGF7 cDNA clone (Cat# [RC224418]) using MegaTran 2.0 (Cat# [TT210002]).

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