Fibroblast Growth Factor Receptor Activating Gene 1 (FRAG1), Related Proteins and Methods

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Technology description

Summary

These applications describe the identification, isolation and cloning of the human gene named Fibroblast Growth Factor Receptor Activating Gene I (FRAG1) as well as its rat homolog. A full length clone of the human FRAG1 was deposited and the partial sequence (about 90%) is disclosed. The complete sequence of the rat homolog is disclosed.
The gene for FRAG1 encodes a protein which activates the known growth factor receptor, Fibroblast Growth Factor Receptor 2 (FGFR2). FRAG1, when fused to FGFR2, leads to a transformed phenotype when transfected into cells and enhanced levels of phosphorylation/activation of FGFR2. The FGFR2-FRAG1 fusion protein was isolated from an osteosarcoma. Products derived from the FRAG1 cDNA, protein or antibodies which recognize the FRAG1 antigen are likely to be useful as diagnostics, therapeutics and research reagents.

Institution

NIH - National Institutes of Health

联系我们

叶先生

电 话：021-65679356

手 机：13414935137

邮 箱：yeyingsheng@zf-ym.com