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(54) Title: OSTEOCLAST-ASSOCIATED RECEPTOR

(57) Abstract: This invention relates to methods and compositions that modulate the activity of cells, such as osteoclast cells, involved in the growth, development, repair, degradation and homeostasis of bone tissue. The compositions may therefore by used to modulate such processes and to treat bone growth related disorders (for example, osteoporosis and osteopetrosis). In particular, the invention provides a novel polypeptide, referred to as the Osteoclast Associated Receptor or OSCAR, that is specifically expressed by oteoclast cells and modulates osteoclast cell activity. OSCAR nucleic acids (including vectors), fusion polypeptides and OSCAR specific antibodies are also provided, as well as diagnostic and screening assays using such nucleic acids, polypeptide and antibodies.