

### Predicted candidate gene as trials for other disease

S. No.	Predicted cancer genes	Database identified	Targets	Disease	Pathways
1	JUN	TTD	Clinical trial	Melanoma, breast cancer, Rheumatoid arthritis, cancer and vascular disease	Pathways in cancer, B-cell and T-cell receptor signalling pathway, colorectal cancer and Renal cell carcinoma.
2	JAK2	TTD	Clinical trial	Hodgkin's disease, unspecified Leukemia, unspecified Vascular disease	Adipocytokine signaling pathway Chemokine signaling pathway Jak STAT signaling pathway
3	SMAD3	TTD	Research Target	Lung fibrosis	Not specified
4	SRC	TTD	Successful target	Breast cancer Cancer, unspecific Osteoporosis and other bone related diseases Osteoporosis, unspecified	Adherens junction Epithelial cell signaling in Helicobacter pylori ErbB signaling pathway Focal adhesion Gap junction GnRH signaling pathway Tight junction VEGF signaling pathway
5	INSR	TTD	Successful Target	Diabetes mellitus	Insulin signaling pathway Type II diabetes mellitus
6	ERBB3	TTD	Clinical trial	Advanced non-small cell lung cancer , Lung adenocarcinoma	Calcium signaling pathway ErbB signaling pathway