



FOR IMMEDIATE RELEASE

Latest *Cell* Publication Describe the Novel Kinase Regulators Using OriGene's Functional Kinome Collection

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Scientists from University of Helsinki, Institute of Molecular Medicine in Finland and OriGene Technologies joined effort in creating the most comprehensive kinome collection of nearly all predicted human protein kinases, including the functional kinases and their kinase-deficient counterparts. Equipped with this collection, the authors successfully identified novel kinase regulators in Hedgehog signaling pathway and in activation of Karposi's Sarcoma herpesvirus. The results are published in May 2nd issue of *Cell*, titled "Application of active and kinase-deficient kinome collection for identification of kinase regulating Hedgehog signaling".

The uniqueness of the study lies in the kinome expression screening approach in interrogating the gene functions in biological pathways. Screening the collection in a cell-culture model of Hedgehog signaling pathway, the authors were able to quickly identify two novel regulator kinases, DYRK2 and MAP3K10. The study demonstrated the kinome collection as a powerful tool for systematic and quantitative analysis of signaling cross-talk and identification of novel regulatory kinases.

"The isolated kinase genes form a resource that scientist can now use to systematically map kinase signaling networks in different cellular disease models." Stated Professor Taipale, senior author of the article. "The kinases are also promising targets for therapeutic intervention in the treatment various cancers".

"OriGene is proud to be a contributor to this exciting research. The study provides another proof-of-principle of using a large collection of over-expression cDNA clone to decipher gene functions in biological pathways." Said Dr. Zairen Sun, VP of R&D at OriGene. "We are excited that scientists are taking advantage of such collection to accelerate their research. We hope this publication will serve as a tutorial for those who wish to try large-scale biology."

OriGene's TrueClone collection of over 20,000 unique cDNA clones has empowered multiple pioneering groups to discover novel genes in major pathways through genome-scale biology. The *Cell* publication further validated the value of the TrueClone collection. The comprehensiveness of the collection and the expression-readiness of the cDNA clones make it the ideal source for high-throughput functional screening. To make the collection more accessible and assay-ready, OriGene now offers the convenient Kinome GFC (Genome wide Full-length cDNA) Transfection Array.

About OriGene Technologies

Since 1996, OriGene has been dedicated in creating TrueClone, the largest full-length cDNA collection for gene function study. OriGene's flagship products are the TrueClone Collection, a searchable source of over 33,000 human full-length cDNA clones suitable for transfection and protein expression and TrueORF clones of over 25,000 tagged human ORF clone. More information about OriGene Technologies, the GFC Transfection Array of cDNA clones and other products can be found at the company's website <http://www.origene.com/>.

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