



FOR IMMEDIATE RELEASE

Novartis Scientists Discovered Novel Activators of PGC-1 α Transcription Using 10,000 Human Full-length cDNA clone Array developed by OriGene

Rockville, MD. September 26, 2006 –Novartis scientists have published their use of OriGene's TrueClone™ full-length cDNA collection to [identify novel activators of PGC-1 \$\alpha\$ transcription](#). This work was recently published in the Journal Proceedings of the National Academy of Sciences titled "Transducer of regulated CREB-binding proteins (TORCs) induces PGC-1 α transcription and mitochondrial biogenesis in muscle cells" (PNAS, September 26, 2006 vol. 103 no.39 14379-14384). PGC-1 α is a co-activator of PPAR- γ and regulator of adaptive thermogenesis. Novel activators like TORCs can serve as potential therapeutic targets to modulate mitochondrial function which is implicated in many human diseases.

Arrays of transfection-ready full-length cDNAs allow scientists to easily query the roles of genes and proteins in disease phenotypes and pathways in a high throughput mode. OriGene's expression ready full-length cDNA clone collection has been used by many leading pharmaceutical companies and research institutes [providing numerous discoveries](#). OriGene is also making available over 20,000 full-length cDNA clones into an easy functional expression tool through the GFC-Array product line.

Although there have been many different efforts to collect every human full-length cDNA clone, OriGene's TrueClone Collection is the most comprehensive to date. OriGene cDNA clones are expression-ready, authentic full-length cDNA plasmids. These features have made them ideal for use in target identification and validation as demonstrated again by this paper.

"OriGene's mission is to build the most comprehensive collection of human full-length cDNAs in expression-ready vectors and to make this collection available to all researchers for systematic studies of human gene functions," said Karl Kovacs PhD, Vice President of Alliance Management at OriGene. "We are glad to see our clones being used to generate valuable data for target discovery at Novartis".

About OriGene Technologies

OriGene provides innovative technologies for large-scale gene function analyses. OriGene's flagship product is the TrueClone Collection, a searchable source of over 33,000 human full-length cDNA clones suitable for transfection and protein expression. More information about OriGene Technologies, the GFC-Arrays of cDNA clones and their other products can be found at the company's web site <http://www.origene.com>.

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