



Report of Deliverable No: \_\_\_6.5\_\_\_

Grant agreement number 200800

Dissemination Level (please tick)

**PU** = Public

**PP** = Restricted to other programme participants (including the Commission Services).

**RE** = Restricted to a group specified by the consortium (including the Commission Services).

**CO** = Confidential, only for members of the consortium (including the Commission Services).

## D6.5 miRNA sequences able to interfere with the expression of selected genes due month 24

miRNA based strategy is used to silence gene expression in various experimental systems including chicken. We have designed and tested the miRNA sequences efficiently silencing chick Smoc2 mRNA. This deliverable, **delivered before month 24**, is also the proof of principle for the generation of miRNA silencing constructs for the genes identified by the consortium. The sequences listed below have been cloned into appropriate delivery vectors and shown to silence chick Smoc2 expression in vitro:

List of deliverables:

Sequence 1: TCAGAAATCGCTTTGTGCATCTGAT

Sequence 2: TACTGCTGGTGTGTTCTCGTTGA

Sequence 3: AAAGATCCTCAGCTGGAAATT

The consortium has identified however novel genes potentially associated with OA. Therefore the deliverable 6.5 has been modified and expanded to incorporate the newly discovered genes. Since that discovery took place later into the project, the expanded Deliverable 6.5 is not as complete yet as the original deliverable containing Smoc2. This is however an ongoing work and should the consortium identify more genes associated with OA, they will enter the same pipeline as described above.