

The NKi shRNALibrary



shRNA library targeting 8000 human genes

- Including:
- Cell cycle genes
 - Oncogenes and tumorsuppressor genes
 - Transcription factors
 - Kinases and phosphatases
 - Signal transduction
 - Chromatin structure (43 genes)
 - DNA repair and replication (71 genes)
 - Adhesion
 - Angiogenesis
 - Apoptosis
 - Genes implicated hereditary cancer
 - Genes implicated drug response
 - Disease genes
 - etc.....



Generated 3 different shRNA constructs
against each gene

24.000 unique 19_{mer} sequences

24.000 pRETROSUPER shRNA constructs

48.000 59_{mer} oligos (~ 500 96 well plates oligos)

~ 80 96 well plates with bacterial glycerol stocks:

- each well 1 gene (3 shRNA constructs)
- each plate 96 genes (288 shRNA constructs)
- 24.000 shRNA constructs (8000 wells)



DNA isolated from :

- single well / single gene (8000)
- per 96 well plate (~ 80 pools of 96 genes)
- subsets of genes of interest (gene families)
- total library