



Cellecta can help validate target genes by knocking down expression in your cells of interest. Cellecta provides complete services for validation of target genes including qRT-PCR, proliferation assays, reporter assays, and custom stable knockdown cell line creation.

## Validation of Target Gene Knockdown

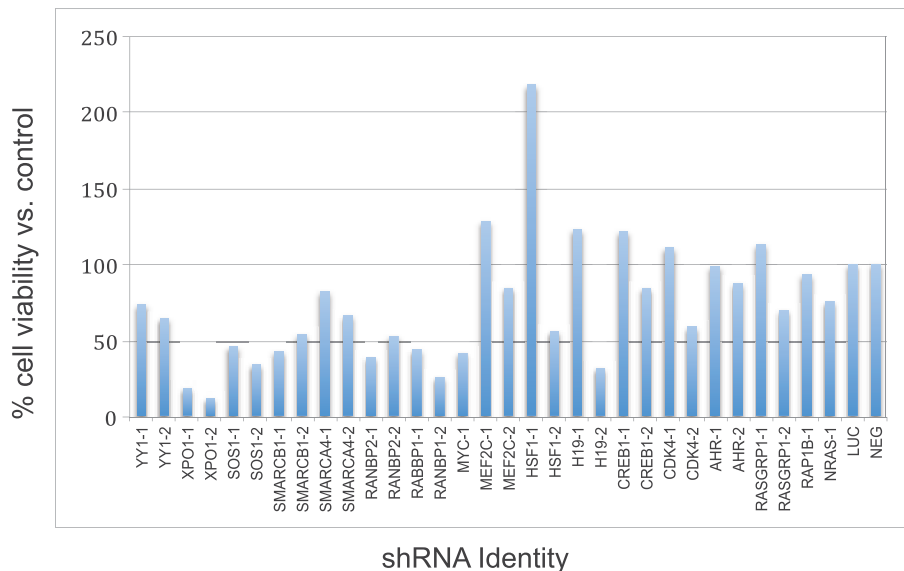
We design and make several constructs to the target gene, then test these to find the one with the best knockdown.

- You tell us the RefSeq number or gene ID of the target gene you want to knock down, and we do the rest
- Best knockdown is measured by qRT-PCR and is usually better than 70%
- We can provide you with the confirmed shRNA construct for the gene target
- Alternatively, we can send you the stable pool we used for testing
- 10 week turnaround time

## Proliferation, Survival, or Viability Assays

- We can quantify growth rates, survival, or cell death by FACS analysis
- Tet-inducible shRNA expression is used to compare growth rate of induced vs. uninduced cells

### Individual shRNA Validation in Inducible Vector



**Proliferation Assay example.** Seventeen targets specific for hematopoietic lines were selected by FACS for validation. The results shown indicate that at least half show significant inhibition of growth with 2 different shRNA.