

**Supplementary information, Table S4** Morpholinos used in this work.

| Morpholinos          | Sequences (5'-3')         | Dosages (ng) |
|----------------------|---------------------------|--------------|
| <i>runx1</i> -atgMO  | AGCGCTCTTACCGTATTTGGCGTCC | 3.4          |
| <i>abcg2a</i> -atgMO | TCAGCTCCACTCTGGTGTCCGCCAT | 4.2          |
| <i>alad</i> -atgMO   | GTCATTGTGTTTGTGTTTAGTCACC | 4.2          |
| <i>gpr183</i> -atgMO | TGAAGTTTGCTGATGTTGTCTCCAT | 3.4          |
| <i>hdr</i> -atgMO    | GTCCAATCATTATCTCACTTTCTCC | 4.2          |
| <i>nfe2</i> -atgMO   | GTTCTGCCAGGCCAAGTCCATCTC  | 4.2          |
| <i>plxnd1</i> -atgMO | CACACACACTCACGTTGATGATGAG | 2.1          |
| <i>tbxbl</i> -atgMO  | CCGTTCTCTGGGAGATACATGTCC  | 3.0          |
| <i>arrb1</i> -atgMO  | ACACCCTTGTGCCTTTATCTCCCAT | 4.2          |
| <i>nedd4a</i> -atgMO | CGGGAGTTGCGCGGCCATGTTTCAT | 2.1          |