

Table S10 : Gene ontology analysis for the Franches-Montagnes population

Term	Bonferroni adjusted p-value	N genes	Genes
GO biological process			
rhombomere development (GO:0021546)	1.69E-02	3	<i>HOXB2, HOXB1, HOXB3</i>
embryonic skeletal system morphogenesis (GO:0048704)	2.93E-03	6	<i>HOXB9, NOG, HOXB2, HOXB1, HOXB5, HOXB3</i>
embryonic skeletal system development (GO:0048706)	1.29E-02	6	<i>HOXB9, NOG, HOXB2, HOXB1, HOXB5, HOXB3</i>
skeletal system morphogenesis (GO:0048705)	5.09E-03	8	<i>FGR, HOXB9, NOG, HOXB2, HOXB1, HOXB5, HOXB3, PHOSPHO1</i>
GO cellular component			
nucleoplasm (GO:0005654)	4.80E-03	27	<i>PPP1R8, HOXB9, NFE2L1, EPN3, SKAP1, DGKE, DGKQ, CTBP1, CALCOCO2, UBE2Z, SPOP, HOXB2, IGF2BP1, HOXB13, HOXB1, HOXB5, MRPL10, CBX1, HOXB3, STX12, UVSSA, SP2, EYA3, FAM76A, LUC7L3, RPL23, PIP4K2B</i>
nuclear lumen (GO:0031981)	1.11E-03	31	<i>PPP1R8, CDK5RAP3, HOXB9, NFE2L1, EPN3, SKAP1, DGKE, DGKQ, CTBP1, CALCOCO2, UBE2Z, SPOP, MAEA, HOXB2, IGF2BP1, HOXB13, HOXB1, HOXB5, RNF212, MRPL10, CBX1, HOXB3, STX12, UVSSA, SP2, EYA3, FAM76A, LUC7L3, RPL23, RPA2, PIP4K2B</i>
organelle lumen (GO:0043233)	5.46E-03	32	<i>PPP1R8, CDK5RAP3, HOXB9, NFE2L1, EPN3, SKAP1, DGKE, DGKQ, CTBP1, CALCOCO2, UBE2Z, SPOP, MAEA, HOXB2, IGF2BP1, HOXB13, PYROXD2, HOXB1, HOXB5, RNF212, MRPL10, CBX1, HOXB3, STX12, UVSSA, SP2, EYA3, FAM76A, LUC7L3, RPL23, RPA2, PIP4K2B</i>
intracellular organelle lumen (GO:0070013)	5.46E-03	32	<i>PPP1R8, CDK5RAP3, HOXB9, NFE2L1, EPN3, SKAP1, DGKE, DGKQ, CTBP1, CALCOCO2, UBE2Z, SPOP, MAEA, HOXB2, IGF2BP1, HOXB13, PYROXD2, HOXB1, HOXB5, RNF212, MRPL10, CBX1, HOXB3, STX12, UVSSA, SP2, EYA3, FAM76A, LUC7L3, RPL23, RPA2, PIP4K2B</i>
membrane-enclosed lumen (GO:0031974)	5.46E-03	32	<i>PPP1R8, CDK5RAP3, HOXB9, NFE2L1, EPN3, SKAP1, DGKE, DGKQ, CTBP1, CALCOCO2, UBE2Z, SPOP, MAEA, HOXB2, IGF2BP1, HOXB13, PYROXD2, HOXB1, HOXB5, RNF212, MRPL10, CBX1, HOXB3, STX12, UVSSA, SP2, EYA3, FAM76A, LUC7L3, RPL23, RPA2, PIP4K2B</i>