

Pathways	Genes	<i>swd^{p75fm}</i> mutants relative to wt
Cytokines	<i>socs3a</i>	4.72
	<i>fkbp5</i>	4.41
	<i>ddx41</i>	1.34
	<i>anxA4</i>	0.64
	<i>tnf-α</i>	2.69
Hedgehog	<i>shh</i>	0.63
	<i>ptc1</i>	0.97
	<i>smo</i>	0.74
Notch	<i>deltaB</i>	0.94
	<i>mib</i>	0.91
Wnt	<i>duboraya</i>	0.16
	<i>wnt8B</i>	0.97
	<i>wnt1</i>	1.01
	<i>wnt8-2</i>	0.76
Tgf- β	<i>gdf11</i>	0.58
Fgf	<i>fgf4</i>	0.74

Table S3. Semi-quantification of mRNA expression of selected cytokines and components of the developmental pathways using total RNA extracted from the whole larvae at 72 h.p.f. as determined by real-time PCR. Each value represents the mean of triplicate measurements of the mRNA level of the analyzed gene in the *swd^{p75fm}* mutants relative to that in wt. The primers used for real-time PCR were designed using the zebrafish cDNA sequences available at the National Center for Biotechnology Information (www.ncbi.nlm.nih.gov):

socs3a: 5'-GAGGGGAGAAAATCCCTCTG-3', 5'-GCCCAAAAACGTAAGCCATA-3'

fkbp5: 5'-AGAGAGCTCGGCTCAGTCAG-3', 5'-CTCCATGTCCGTGAACCTTT-3'

ddx41: 5'-CAGAGCCCTGATGTCTGTGA-3', 5'-TCAGAATGGCCTGAGGAAAC-3'

anxA4: 5'-GACGCACATGAGCTGAGAAA-3', 5'-CAGCCTGAGCCTCATCTACC-3'

tnf α : 5'-TCCCGATGATGGCATTATT-3', 5'-CCCAGTCTGTCTCCTTCTCG-3'

shh: 5'-GACACCTCTCGCCTACAAGC-3', 5'-CAGATTTGAAAGGCGAAAG-3'

ptc1: 5'-GAGTGTGGACAGCGACGATA-3', 5'-GACACATAGCCAAGCGTTCA-3'
smo: 5'-AGGCAACAATCCTCATTGG-3', 5'-AAAGTTGATACCCGCCACAG-3'
deltaB: 5'-GGCGGCAGTTGTAATGATTT-3', 5'-GGTCCAGCCTCTTCTCACAG-3'
mib: 5'-AAACTTTTCGAGACGCAGGA-3', 5'-TCCACGCTATGTTTCAGCAG-3'
dub: 5'-CCATCTCGCAGACACAGAAA-3', 5'-TTTGCTTTTGGCTCCTCTGT-3'
wnt8B: 5'-GCTACAGTTGCCCGAGTTTC-3', 5'-TTGCCCTTCCTCAAACACTC-3'
wnt1: 5'-AACTGCACCAGCACACAGAC-3', 5'-TATTTACCACCCCGGATTCA-3'
wnt8-2: 5'-TACAAGCTGGGGCTCAGAGT-3', 5'-TCGTCACAGCCACAGTTTTTC-3'
gdf11: 5'-AGCCGAACCTCTTTCTAGCC-3', 5'-TGCTTTGGGAAGAAGCTGAT-3'
fgf4: 5'-TGATTATCTCACGGGCATCA-3', 5'-AAGCTTCCCTTTGCTGTTCA-3'
gapdh: 5'-GATACACGGAGCACCAGGTT-3', 5'-CGTTGAGAGCAATACCAGCA-3'