

| Time Point | Cluster ID # | Major Cell Type Classifier | Subtype | Identifier genes | # of Cells in Cluster | Citations |
|------------|--------------|----------------------------|--|--|-----------------------|--|
| 48-50HPF | cI0 | Neuronal | Autonomic Neuronal Progenitor | phox2bb, tfap2a/b, elavl3/4, phox2a, tuba2, ncma1a, draxin, sncb, fez1, cdh2 | 201 | Farnsworth et al., 2020; Soldatov et al., 2019 |
| 48-50HPF | cI1 | Mesenchyme | Mesenchymal Progenitor | prrx1a, sna1a, twist1a, foxc1b, mcm5, pcna, mcm7, cdh11, meox1 | 160 | Soldatov et al., 2019 |
| 48-50HPF | cI2 | Mesenchyme | Chondrogenic Mesenchyme Proliferative 1 | dlx2a, prrx1a/b, twist1a/b, barx1, cdk1, ccna2 | 154 | Soldatov et al., 2019; Sperber et al., 2008; Sperber and Dawid, 2008; Ding et al., 2013; Barske et al., 2016 |
| 48-50HPF | cI3 | Mesenchyme | Chondrogenic Mesenchyme Proliferative 2 | barx1, dlx2a, mcm6, prrx1b, chaf1a, pcna, hand2 | 129 | Soldatov et al., 2019; Sperber et al., 2008; Sperber and Dawid, 2008; Ding et al., 2013; Barske et al., 2016 |
| 48-50HPF | cI4 | Mesenchyme | Chondrogenic Mesenchyme Stem-like | prrx1a, dlx2a, barx1, twist1a, rpa1, fen1, rpa2, uhrf1, id3, chaf1a | 108 | Soldatov et al., 2019; Sperber et al., 2008; Sperber and Dawid, 2008; Ding et al., 2013; Barske et al., 2016 |
| 48-50HPF | cI5 | Neural Crest | Migratory Neural Crest/ Enteric Neural Crest | sox10, foxd3, crestin, tfap2a, mmp17b, pcdh10a, phox2bb, ret, ngfrb, gfra1a, | 93 | Dutton et al., 2001; Luo et al., 2001; Knight et al., 2003; Stewart et al., 2006 |
| 48-50HPF | cI6 | Mesenchyme | Mesenchyme Differentiating 1 | foxc1a, twist1a, tagln2, aldh1a2, rdh10a, meis3, cyp26a1, hand2, tpm4a, actb1 | 88 | Soldatov et al., 2019 |
| 48-50HPF | cI7 | Neuronal | Central Nervous System neuron | gad1b, gad2, slc6a5, slc32a1, gata2a, irx1b, elavl3, elavl4, tuba2, phox2bb | 86 | Farnsworth et al. 2020 |
| 48-50HPF | cI8 | Pigment | Melanophore | tyr1a/b, mitfa, dct, pmela, slc45a2, sox10, mlpha, tspan10, oca2 | 81 | Du et al., 2003; Lister et al., 1999; Ludwig et al., 2004; Quigley and Parichy, 2002 |
| 48-50HPF | cI9 | Mesenchyme | Chondrogenic Mesenchyme Migratory | dlx2a, barx1, foxc1a, twist1a, dlx4, id2a, snai1a/b, twist3 | 77 | Soldatov et al., 2019; Sperber et al., 2008; Sperber and Dawid, 2008; Ding et al., 2013; Barske et al., 2016 |
| 48-50HPF | cI10 | Mesenchyme | Mesenchyme Differentiating 2 | cdh11, foxc1a/b, prrx1a, meox1, pdgfra, col2a1a, col9a1a, col9a2, sparc, colec12, reck | 74 | Soldatov et al., 2019 |
| 48-50HPF | cI11 | Mesenchyme | Mesenchymal Migratory | cxl12a, cxcl12b, rac1, reck, foxc1a, twist1a, prrx1a, meox1, snai2 | 74 | Soldatov et al., 2019 |
| 48-50HPF | cI12 | Mesenchyme | Chondrogenic Mesenchyme Proliferative 3 | prrx1b, twist1b, foxc1a, barx1, cyp26a1, rdh10a, meis3, aldh1a2, mcm5, mcm6 | 61 | Soldatov et al., 2019 |
| 48-50HPF | cI13 | Neural | Neural Progenitor | notch1a, dla/b, olig4, elavl3, phox2ba, neurod4, scr1, phox2bb, ncma1a | 61 | Farnsworth et al., 2020 |
| 48-50HPF | cI14 | Mesenchyme | Fin Bud | tbx5a, hand2, hoxa13a/b, prrx1a/b, foxc1b, hoxd13a, pcna | 58 | Yelon et al., 2000; Lu et al., 2019; Nakamura et al., 2016; Feregrino et al., 2019 |
| 48-50HPF | cI15 | Glial | Peripheral Glial Progenitor | sox10, olig1/2, fabp7a, notch1a, sox3, nkx2.2a, pou3f1, plp1a, gfap, s100b | 44 | Soldatov et al., 2019; Carney et al. 2006 |
| 48-50HPF | cI16 | Otic | Otic Epithelium | sox10, cdh1, otomp, cldnb, cldn7b, cldnh, epcam, aldh1a3, vamp8 | 23 | Thisse et al., 2004; Thisse et al., 2005 |
| 48-50HPF | cI17 | Neuronal | Sensory Neuronal Progenitor | ngfrb, neurod1, neurod4, vim, neurog1, grfra1a, six1a/b, elavl4, ist2a/b, pou4f1 | 23 | Soldatov et al., 2019 |
| 48-50HPF | cI18 | Muscle | Muscle | ckmb, actc1b, tnnc2, tnnt3a, pvalb2, tnnt3b, ak1, tpma, desma | 13 | Thisse et al., 2004 |
| 68-70HPF | cI0 | Mesenchyme | Chondrogenic Differentiating Mesenchyme 1 | barx1, sparc, prrx1a/b, twist1a/b, pdgfra, col1a2, col6a1, col5a1 | 281 | Soldatov et al., 2019; Sperber et al., 2008; Sperber and Dawid, 2008; Ding et al., 2013; Barske et al., 2016 |
| 68-70HPF | cI1 | Mesenchyme | Fin Bud | tbx5a, hand2, prrx1a/b, hoxd13a, pcna, foxc1a/b, meox1, hoxa13a/b | 254 | Yelon et al., 2000; Lu et al., 2019; Nakamura et al., 2016; Feregrino et al., 2019 |
| 68-70HPF | cI2 | Mesenchyme | Mesenchymal Migratory | meox1, prrx1a/b, foxc1b, snai1a, cdh11, rac1a, myl9b, twist1a/b | 229 | Soldatov et al., 2019 |
| 68-70HPF | cI3 | Neural | Neural Progenitor | fabp7a, foxd3, sox10, phox2bb, her4.2, mdka, her4.1, ccdn2a, ngfrb, tuba8l3 | 228 | Farnsworth et al., 2020 |
| 68-70HPF | cI4 | Pigment | Melanophore | mitfa, pmela, tyr1a/b, dct, oca2, mlpha, tspan10, tfap2e | 213 | Du et al., 2003; Lister et al., 1999; Ludwig et al., 2004; Quigley and Parichy, 2002 |
| 68-70HPF | cI5 | Neuronal | Sympatho-enteric Progenitor | asc1a, phox2b, phox2a, hand2, insm1a/b, dpys13, ret, ngfrb, grfra1a, elavl3/4 | 202 | Thisse et al., 2004; Heanue and Pachnis, 2008 |
| 68-70HPF | cI6 | Mesenchyme | Chondrogenic Differentiating Mesenchyme 2 | barx1, prrx1a, foxc1a/b, twist1a, col1a2, col5a1, cdh11, dlx5a, sparc, meox1 | 191 | Soldatov et al., 2019 |
| 68-70HPF | cI7 | Mesenchyme | Fin Bud | tbx5a, hand2, hoxa13a/b, prrx1a/b, hoxd13a, pcna, sox10 | 178 | Yelon et al., 2000; Lu et al., 2019; Nakamura et al., 2016; Feregrino et al., 2019 |
| 68-70HPF | cI8 | Mesenchyme | Chondrogenic Proliferative Mesenchyme | prrx1a/b, foxc1a, twist1a/b, barx1, col2a1a, pcna, cdc6, ccbn2 | 98 | Soldatov et al., 2019 |
| 68-70HPF | cI9 | Muscle | Pigmented Muscle | tnnt3b, mitfa, tyr1a/b, tpma, ckmb, gch2, dct, tnnc2, myl1 | 93 | Thisse et al., 2004; Thisse et al., 2005 |
| 68-70HPF | cI10 | Neural | Neural Progenitor | sox10, foxd3, asc1a, aurkb, ncma1b, cncna2, tp2x, phox2bb, ret, elavl3/4 | 76 | Farnsworth et al., 2020 |
| 68-70HPF | cI11 | Otic | Otic Epithelium | cldn1e, vamp8, cldnb, epcam, cldn7b, cldn1h, cdh1 | 70 | Thisse et al., 2004; Thisse et al., 2001 |
| 68-70HPF | cI12 | Neuronal | Enteric Neuron | elavl3/4, phox2bb, grfra1a, ret, fgf13b, vip, vipp, nos1, ngfrb, hoxb5b | 44 | Shepherd et al., 2004; Heanue and Pachnis, 2008; Uyttebroek et al., 2010; Taylor et al., 2016; Gaudet et al., 2011 |
| 68-70HPF | cI13 | Pigment | Pigment Progenitor | sox10, tfec, tfap2e, mitfa, zeb2a, cdh1, mlpha, pax3a, trpm1b, gpx3 | 43 | Saunders et al., 2019 |
| 68-70HPF | cI14 | Glial | Schwann Cells | sox10, mbpa/b, pou3f1, egr2b, fabp7a, erbb3a, plp1a, cx27.5, gldn, mag | 42 | Farnsworth et al., 2020 |
| 68-70HPF | cI15 | Pigment | Xanthophore | xdh, pax7a/b, gch2, aox5 | 39 | Nord et al., 2016; Parichy et al., 2000; Saunders et al., 2019; Minchin and Hughes, 2008; Lister et al., 1999 |
| 68-70HPF | cI16 | Pigment | Iridophore | atic, gpnnmb, tfec, npn4a | 32 | Higdon et al., 2013; Lister et al., 2011; Petratou et al., 2018, 2019 |
| 68-70HPF | cI17 | Mesenchyme | Differentiating Mesenchyme 1 | twist1a, prrx1a, colec12, sparc, mmp2, msx2b, col5a1, col1a1a, pdgfra, tnc | 25 | Soldatov et al., 2019 |
| 68-70HPF | cI18 | Pigment | Proliferative Melanophores | mitfa, pmela, tyr1a/b, aurkb, pcna, cnpdh, mlpha, dct, gpr143, tfap2e | 19 | Du et al., 2003; Lister et al., 1999; Ludwig et al., 2004; Quigley and Parichy, 2002 |
| 68-70HPF | cI19 | Muscle | Muscle | ckmb, tpma, tnnc2, tnnt3b, actc1b, cavin4a, myom1a, neb, flnc, desma | 18 | Thisse et al., 2004 |
| 68-70HPF | cI20 | Mesenchyme | Chondrogenic Mesenchyme Migratory | barx1, twist1a, foxc1a/b, sna1a, dlx3b, mmp2, sparc, snai2, dlx2a, sox9a | 16 | Soldatov et al., 2019 |
| 68-70HPF | cI21 | Unidentified/Spurious | Unidentified/Spurious | anxa2b, clndnc, faah2b, vif1, fabp1b, plac8.1 | 13 | |
| 68-70HPF | cI22 | Mesenchyme | Differentiating Mesenchyme 2 | rac2, sparc, col18a1, col2a1b, col1a1a, lama5, thy1 | 6 | Soldatov et al., 2019 |