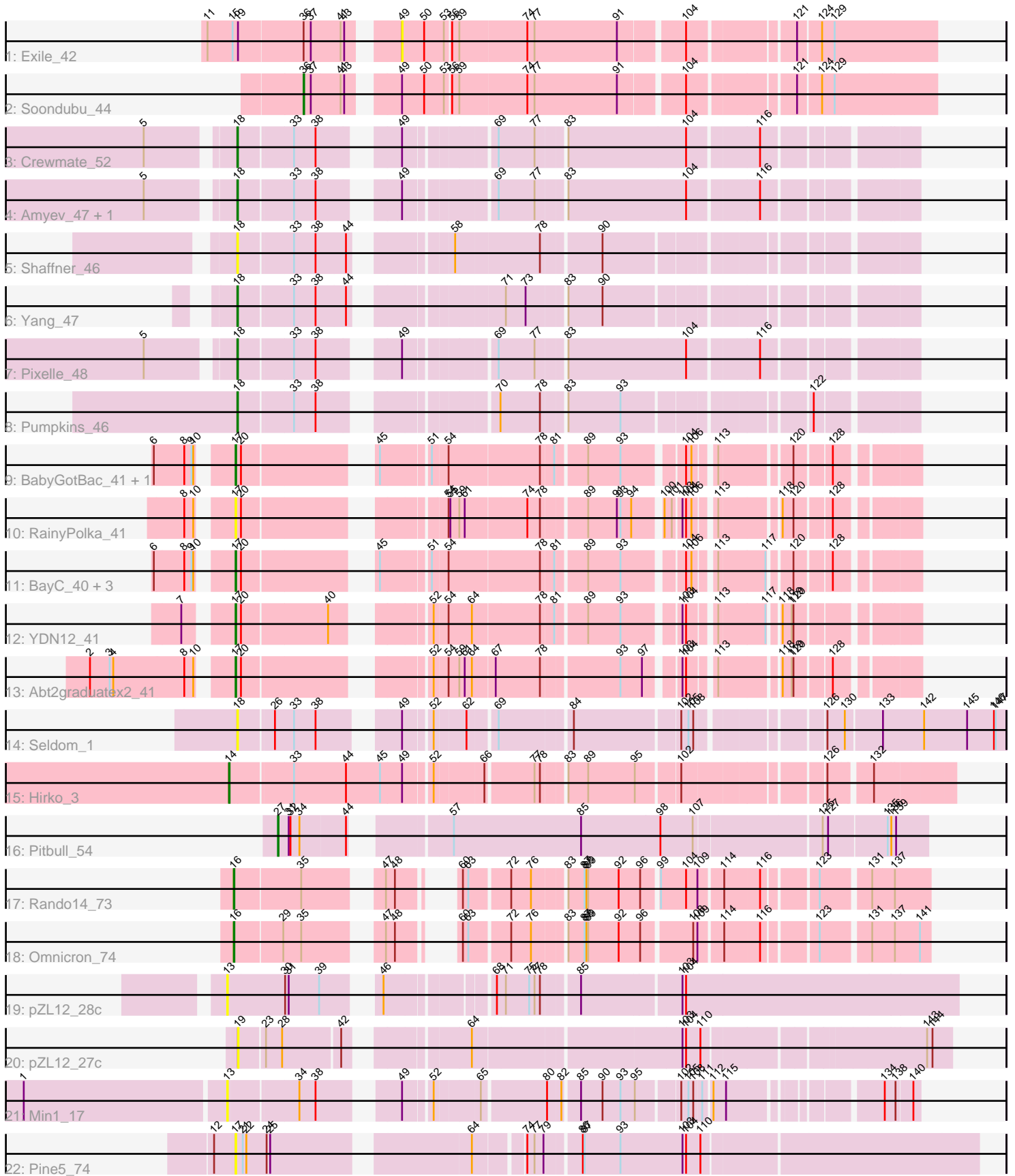


Pham 203225



Note: Tracks are now grouped by subcluster and scaled. Switching in subcluster is indicated by changes in track color. Track scale is now set by default to display the region 30 bp upstream of start 1 to 30 bp downstream of the last possible start. If this default region is judged to be packed too tightly with annotated starts, the track will be further scaled to only show that region of the ORF with annotated starts. This action will be indicated by adding "Zoomed" to the title. For starts, yellow indicates the location of called starts comprised solely of Glimmer/GeneMark auto-annotations, green indicates the location of called starts with at least 1 manual gene annotation.

Pham 203225 Report

This analysis was run 01/18/25 on database version 583.

Pham number 203225 has 27 members, 9 are drafts.

Phages represented in each track:

- Track 1 : Exile_42
- Track 2 : Soondubu_44
- Track 3 : Crewmate_52
- Track 4 : Amyev_47, Tian_46
- Track 5 : Shaffner_46
- Track 6 : Yang_47
- Track 7 : Pixelle_48
- Track 8 : Pumpkins_46
- Track 9 : BabyGotBac_41, TP1604_40
- Track 10 : RainyPolka_41
- Track 11 : BayC_40, Asis_40, Salete_40, Maih_39
- Track 12 : YDN12_41
- Track 13 : Abt2graduatex2_41
- Track 14 : Seldom_1
- Track 15 : Hirko_3
- Track 16 : Pitbull_54
- Track 17 : Rando14_73
- Track 18 : Omnicron_74
- Track 19 : pZL12_28c
- Track 20 : pZL12_27c
- Track 21 : Min1_17
- Track 22 : Pine5_74

Summary of Final Annotations (See graph section above for start numbers):

The start number called the most often in the published annotations is 17, it was called in 8 of the 18 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Abt2graduatex2_41, Asis_40, BabyGotBac_41, BayC_40, Maih_39, Pine5_74, RainyPolka_41, Salete_40, TP1604_40, YDN12_41,

Genes that have the "Most Annotated" start but do not call it:

-

Genes that do not have the "Most Annotated" start:

• Amyev_47, Crewmate_52, Exile_42, Hirko_3, Min1_17, Omnicron_74, Pitbull_54, Pixelle_48, Pumpkins_46, Rando14_73, Seldom_1, Shaffner_46, Soondubu_44, Tian_46, Yang_47, pZL12_27c, pZL12_28c,

Summary by start number:

Start 13:

- Found in 2 of 27 (7.4%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Min1_17 (singleton), pZL12_28c (singleton),

Start 14:

- Found in 1 of 27 (3.7%) of genes in pham
- Manual Annotations of this start: 1 of 18
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Hirko_3 (FL),

Start 16:

- Found in 2 of 27 (7.4%) of genes in pham
- Manual Annotations of this start: 2 of 18
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Omnicron_74 (K5), Rando14_73 (K5),

Start 17:

- Found in 10 of 27 (37.0%) of genes in pham
- Manual Annotations of this start: 8 of 18
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Abt2graduatex2_41 (BG), Asis_40 (BG), BabyGotBac_41 (BG), BayC_40 (BG), Maih_39 (BG), Pine5_74 (singleton), RainyPolka_41 (BG), Salete_40 (BG), TP1604_40 (BG), YDN12_41 (BG),

Start 18:

- Found in 8 of 27 (29.6%) of genes in pham
- Manual Annotations of this start: 5 of 18
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Amyev_47 (AZ1), Crewmate_52 (AZ1), Pixelle_48 (AZ1), Pumpkins_46 (AZ1), Seldom_1 (FD), Shaffner_46 (AZ1), Tian_46 (AZ1), Yang_47 (AZ1),

Start 19:

- Found in 2 of 27 (7.4%) of genes in pham
- No Manual Annotations of this start.
- Called 50.0% of time when present
- Phage (with cluster) where this start called: pZL12_27c (singleton),

Start 27:

- Found in 1 of 27 (3.7%) of genes in pham
- Manual Annotations of this start: 1 of 18
- Called 100.0% of time when present

- Phage (with cluster) where this start called: Pitbull_54 (FQ),

Start 36:

- Found in 2 of 27 (7.4%) of genes in pham
- Manual Annotations of this start: 1 of 18
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Soondubu_44 (AZ),

Start 49:

- Found in 9 of 27 (33.3%) of genes in pham
- No Manual Annotations of this start.
- Called 11.1% of time when present
- Phage (with cluster) where this start called: Exile_42 (AZ),

Summary by clusters:

There are 8 clusters represented in this pham: FQ, singleton, BG, FD, K5, AZ1, AZ, FL,

Info for manual annotations of cluster AZ:

- Start number 36 was manually annotated 1 time for cluster AZ.

Info for manual annotations of cluster AZ1:

- Start number 18 was manually annotated 5 times for cluster AZ1.

Info for manual annotations of cluster BG:

- Start number 17 was manually annotated 8 times for cluster BG.

Info for manual annotations of cluster FL:

- Start number 14 was manually annotated 1 time for cluster FL.

Info for manual annotations of cluster FQ:

- Start number 27 was manually annotated 1 time for cluster FQ.

Info for manual annotations of cluster K5:

- Start number 16 was manually annotated 2 times for cluster K5.

Gene Information:

Gene: Abt2graduatex2_41 Start: 32795, Stop: 31851, Start Num: 17

Candidate Starts for Abt2graduatex2_41:

(2, 33008), (3, 32975), (4, 32969), (8, 32852), (10, 32837), (Start: 17 @32795 has 8 MA's), (20, 32786), (52, 32534), (54, 32513), (59, 32495), (61, 32486), (64, 32474), (67, 32438), (78, 32366), (93, 32246), (97, 32213), (103, 32168), (104, 32162), (113, 32126), (118, 32039), (119, 32024), (120, 32021), (128, 31967),

Gene: Amyev_47 Start: 35220, Stop: 36194, Start Num: 18

Candidate Starts for Amyev_47:

(5, 35097), (Start: 18 @35220 has 5 MA's), (33, 35304), (38, 35340), (49, 35439), (69, 35565), (77, 35625), (83, 35667), (104, 35862), (116, 35973),

Gene: Asis_40 Start: 32623, Stop: 31679, Start Num: 17

Candidate Starts for Asis_40:

(6, 32728), (8, 32680), (9, 32668), (10, 32665), (Start: 17 @32623 has 8 MA's), (20, 32614), (45, 32437), (51, 32365), (54, 32341), (78, 32194), (81, 32173), (89, 32128), (93, 32074), (104, 31990), (106, 31981), (113, 31954), (117, 31879), (120, 31849), (128, 31795),

Gene: BabyGotBac_41 Start: 32623, Stop: 31679, Start Num: 17

Candidate Starts for BabyGotBac_41:

(6, 32728), (8, 32680), (9, 32668), (10, 32665), (Start: 17 @32623 has 8 MA's), (20, 32614), (45, 32437), (51, 32365), (54, 32341), (78, 32194), (81, 32173), (89, 32128), (93, 32074), (104, 31990), (106, 31981), (113, 31954), (120, 31849), (128, 31795),

Gene: BayC_40 Start: 32623, Stop: 31679, Start Num: 17

Candidate Starts for BayC_40:

(6, 32728), (8, 32680), (9, 32668), (10, 32665), (Start: 17 @32623 has 8 MA's), (20, 32614), (45, 32437), (51, 32365), (54, 32341), (78, 32194), (81, 32173), (89, 32128), (93, 32074), (104, 31990), (106, 31981), (113, 31954), (117, 31879), (120, 31849), (128, 31795),

Gene: Crewmate_52 Start: 34132, Stop: 35106, Start Num: 18

Candidate Starts for Crewmate_52:

(5, 34009), (Start: 18 @34132 has 5 MA's), (33, 34216), (38, 34252), (49, 34351), (69, 34477), (77, 34537), (83, 34579), (104, 34774), (116, 34885),

Gene: Exile_42 Start: 36122, Stop: 36952, Start Num: 49

Candidate Starts for Exile_42:

(11, 35837), (15, 35879), (19, 35888), (Start: 36 @35993 has 1 MA's), (37, 36005), (41, 36053), (43, 36059), (49, 36122), (50, 36158), (53, 36191), (56, 36200), (59, 36212), (74, 36323), (77, 36335), (91, 36473), (104, 36572), (121, 36731), (124, 36767), (129, 36788),

Gene: Hirko_3 Start: 1965, Stop: 3029, Start Num: 14

Candidate Starts for Hirko_3:

(Start: 14 @1965 has 1 MA's), (33, 2058), (44, 2145), (45, 2202), (49, 2238), (52, 2277), (66, 2349), (77, 2424), (78, 2433), (83, 2466), (89, 2499), (95, 2574), (102, 2640), (126, 2847), (132, 2907),

Gene: Maih_39 Start: 32622, Stop: 31678, Start Num: 17

Candidate Starts for Maih_39:

(6, 32727), (8, 32679), (9, 32667), (10, 32664), (Start: 17 @32622 has 8 MA's), (20, 32613), (45, 32436), (51, 32364), (54, 32340), (78, 32193), (81, 32172), (89, 32127), (93, 32073), (104, 31989), (106, 31980), (113, 31953), (117, 31878), (120, 31848), (128, 31794),

Gene: Min1_17 Start: 7577, Stop: 8530, Start Num: 13

Candidate Starts for Min1_17:

(1, 7247), (13, 7577), (34, 7682), (38, 7709), (49, 7811), (52, 7850), (65, 7916), (80, 8015), (82, 8036), (85, 8060), (90, 8096), (93, 8126), (95, 8147), (102, 8213), (105, 8225), (108, 8231), (111, 8243), (112, 8255), (115, 8273), (134, 8483), (138, 8498), (140, 8519),

Gene: Omnicron_74 Start: 50751, Stop: 51713, Start Num: 16

Candidate Starts for Omnicron_74:

(Start: 16 @50751 has 2 MA's), (29, 50829), (35, 50859), (47, 50958), (48, 50973), (60, 51018), (63, 51027), (72, 51090), (76, 51123), (83, 51171), (87, 51198), (88, 51201), (89, 51204), (92, 51255), (96, 51288), (108, 51366), (109, 51372), (114, 51408), (116, 51465), (123, 51543), (131, 51618), (137, 51654), (141, 51696),

Gene: Pine5_74 Start: 54534, Stop: 55667, Start Num: 17

Candidate Starts for Pine5_74:

(12, 54501), (Start: 17 @54534 has 8 MA's), (21, 54546), (22, 54552), (24, 54585), (25, 54591), (64, 54882), (74, 54954), (77, 54966), (79, 54981), (86, 55032), (87, 55035), (93, 55095), (103, 55194), (104, 55200), (110, 55224),

Gene: Pitbull_54 Start: 30102, Stop: 31100, Start Num: 27

Candidate Starts for Pitbull_54:

(Start: 27 @30102 has 1 MA's), (31, 30120), (32, 30123), (34, 30138), (44, 30213), (57, 30333), (85, 30546), (98, 30678), (107, 30732), (125, 30933), (127, 30942), (135, 31035), (136, 31041), (139, 31047),

Gene: Pixelle_48 Start: 35564, Stop: 36538, Start Num: 18

Candidate Starts for Pixelle_48:

(5, 35441), (Start: 18 @35564 has 5 MA's), (33, 35648), (38, 35684), (49, 35783), (69, 35909), (77, 35969), (83, 36011), (104, 36206), (116, 36317),

Gene: Pumpkins_46 Start: 33990, Stop: 34940, Start Num: 18

Candidate Starts for Pumpkins_46:

(Start: 18 @33990 has 5 MA's), (33, 34074), (38, 34110), (70, 34338), (78, 34404), (83, 34437), (93, 34524), (122, 34794),

Gene: RainyPolka_41 Start: 32578, Stop: 31634, Start Num: 17

Candidate Starts for RainyPolka_41:

(8, 32635), (10, 32620), (Start: 17 @32578 has 8 MA's), (20, 32569), (54, 32296), (55, 32293), (59, 32278), (61, 32269), (74, 32170), (78, 32149), (89, 32083), (91, 32035), (93, 32029), (94, 32011), (100, 31975), (101, 31963), (103, 31951), (104, 31945), (106, 31936), (113, 31909), (118, 31822), (120, 31804), (128, 31750),

Gene: Rando14_73 Start: 49427, Stop: 50389, Start Num: 16

Candidate Starts for Rando14_73:

(Start: 16 @49427 has 2 MA's), (35, 49535), (47, 49634), (48, 49649), (60, 49694), (63, 49703), (72, 49766), (76, 49799), (83, 49847), (87, 49874), (88, 49877), (89, 49880), (92, 49931), (96, 49964), (99, 49988), (104, 50030), (109, 50048), (114, 50084), (116, 50141), (123, 50219), (131, 50294), (137, 50330),

Gene: Salete_40 Start: 32623, Stop: 31679, Start Num: 17

Candidate Starts for Salete_40:

(6, 32728), (8, 32680), (9, 32668), (10, 32665), (Start: 17 @32623 has 8 MA's), (20, 32614), (45, 32437), (51, 32365), (54, 32341), (78, 32194), (81, 32173), (89, 32128), (93, 32074), (104, 31990), (106, 31981), (113, 31954), (117, 31879), (120, 31849), (128, 31795),

Gene: Seldom_1 Start: 1247, Stop: 138, Start Num: 18

Candidate Starts for Seldom_1:

(Start: 18 @1247 has 5 MA's), (26, 1193), (33, 1163), (38, 1127), (49, 1025), (52, 986), (62, 941), (69, 899), (84, 788), (102, 620), (105, 608), (108, 602), (126, 425), (130, 398), (133, 341), (142, 275), (145, 203), (146, 158), (147, 155),

Gene: Shaffner_46 Start: 33959, Stop: 34921, Start Num: 18

Candidate Starts for Shaffner_46:

(Start: 18 @33959 has 5 MA's), (33, 34043), (38, 34079), (44, 34127), (58, 34250), (78, 34385), (90, 34475),

Gene: Soondubu_44 Start: 36476, Stop: 37435, Start Num: 36

Candidate Starts for Soondubu_44:

(Start: 36 @36476 has 1 MA's), (37, 36488), (41, 36536), (43, 36542), (49, 36605), (50, 36641), (53, 36674), (56, 36683), (59, 36695), (74, 36806), (77, 36818), (91, 36956), (104, 37055), (121, 37214), (124, 37250), (129, 37271),

Gene: TP1604_40 Start: 32623, Stop: 31679, Start Num: 17

Candidate Starts for TP1604_40:

(6, 32728), (8, 32680), (9, 32668), (10, 32665), (Start: 17 @32623 has 8 MA's), (20, 32614), (45, 32437), (51, 32365), (54, 32341), (78, 32194), (81, 32173), (89, 32128), (93, 32074), (104, 31990), (106, 31981), (113, 31954), (120, 31849), (128, 31795),

Gene: Tian_46 Start: 35220, Stop: 36194, Start Num: 18

Candidate Starts for Tian_46:

(5, 35097), (Start: 18 @35220 has 5 MA's), (33, 35304), (38, 35340), (49, 35439), (69, 35565), (77, 35625), (83, 35667), (104, 35862), (116, 35973),

Gene: YDN12_41 Start: 32025, Stop: 31081, Start Num: 17

Candidate Starts for YDN12_41:

(7, 32088), (Start: 17 @32025 has 8 MA's), (20, 32016), (40, 31878), (52, 31764), (54, 31743), (64, 31704), (78, 31596), (81, 31575), (89, 31530), (93, 31476), (103, 31398), (104, 31392), (113, 31356), (117, 31281), (118, 31269), (119, 31254), (120, 31251),

Gene: Yang_47 Start: 33687, Stop: 34649, Start Num: 18

Candidate Starts for Yang_47:

(Start: 18 @33687 has 5 MA's), (33, 33771), (38, 33807), (44, 33855), (71, 34056), (73, 34089), (83, 34146), (90, 34203),

Gene: pZL12_28c Start: 19291, Stop: 18185, Start Num: 13

Candidate Starts for pZL12_28c:

(13, 19291), (30, 19198), (31, 19192), (39, 19141), (46, 19078), (68, 18925), (71, 18910), (75, 18871), (77, 18862), (78, 18853), (85, 18799), (103, 18640), (104, 18634),

Gene: pZL12_27c Start: 18188, Stop: 17142, Start Num: 19

Candidate Starts for pZL12_27c:

(19, 18188), (23, 18149), (28, 18122), (42, 18032), (64, 17873), (103, 17546), (104, 17540), (110, 17516), (143, 17180), (144, 17174),