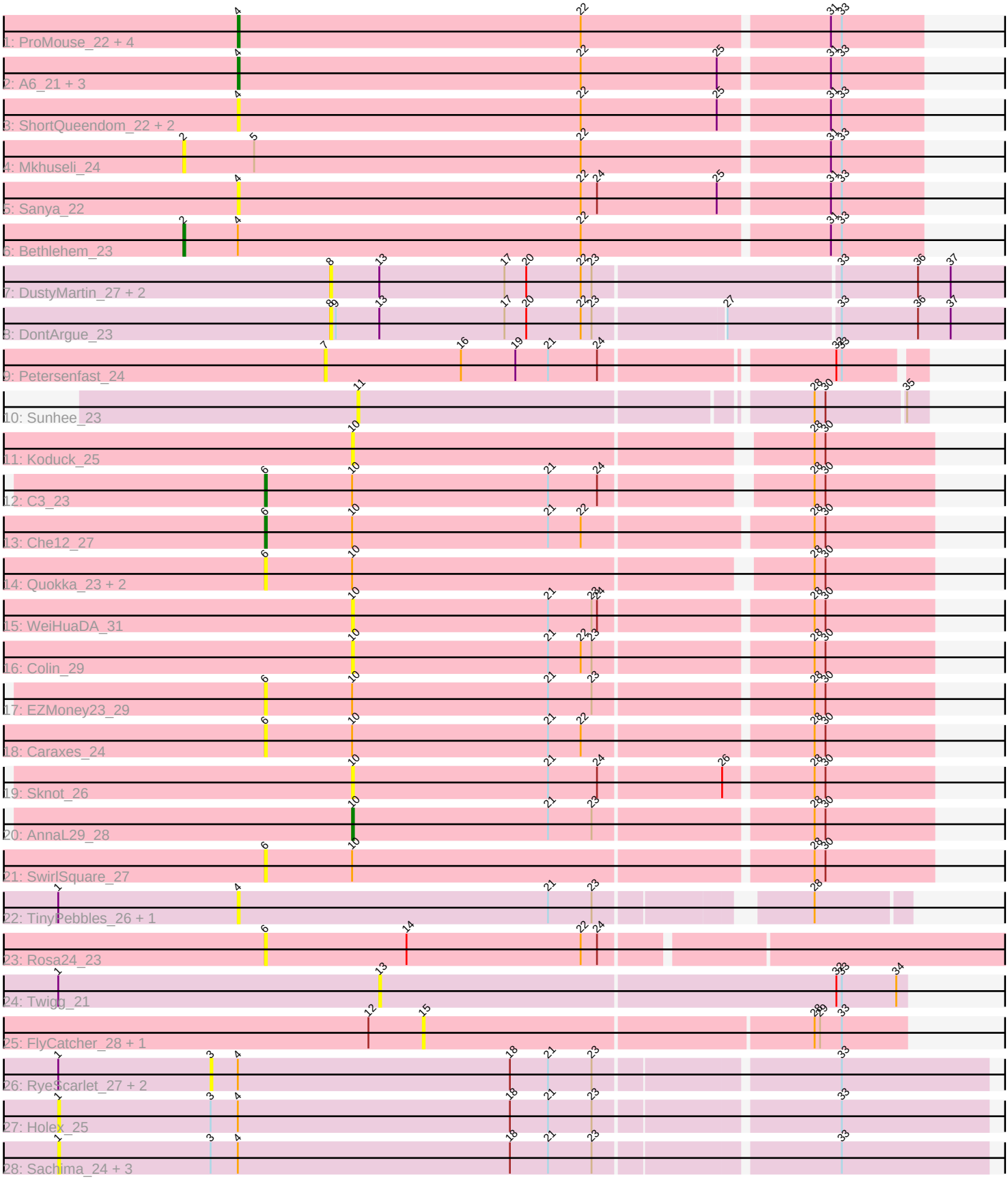
Pham 203033


1: ProMouse_22 + 4
2: A6_21 + 3
3: ShortQueendom_22 + 2
4: Mkhuseli_24
5: Sanya_22
6: Bethlehem_23
7: DustyMartin_27 + 2
8: DontArgue_23
9: Petersenfast_24
10: Sunhee_23
11: Koduck_25
12: C3_23
13: Che12_27
14: Quokka_23 + 2
15: WeiHuaDA_31
16: Colin_29
17: EZMoney23_29
18: Caraxes_24
19: Sknot_26
20: AnnaL29_28
21: SwirlSquare_27
22: TinyPebbles_26 + 1
23: Rosa24_23
24: Twigg_21
25: FlyCatcher_28 + 1
26: RyeScarlet_27 + 2
27: Holex_25
28: Sachima_24 + 3

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 203033 Report

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

Pham number 203033 has 48 members, 39 are drafts.

Phages represented in each track:
- Track 1 : ProMouse_22, Aeneas_25, U2_23, GMonster_22, PhrostyMug_23
- Track 2 : A6_21, BK1_21, Inyanga_22, StewieG_22
- Track 3 : ShortQueendom_22, Teodoridan_21, Sandaddy_22
- Track 4 : Mkhuseli_24
- Track 5 : Sanya_22
- Track 6 : Bethlehem_23
- Track 7 : DustyMartin_27, Rowdy_27, Shapes_27
- Track 8 : DontArgue_23
- Track 9 : Petersenfast_24
- Track 10 : Sunhee_23
- Track 11 : Koduck_25
- Track 12 : C3_23
- Track 13 : Che12_27
- Track 14 : Quokka_23, Bradman_24, MajorMajor_24
- Track 15 : WeiHuaDA_31
- Track 16 : Colin_29
- Track 17 : EZMoney23_29
- Track 18 : Caraxes_24
- Track 19 : Sknot_26
- Track 20 : AnnaL29_28
- Track 21 : SwirlSquare_27
- Track 22 : TinyPebbles_26, Snickers_26
- Track 23 : Rosa24_23
- Track 24 : Twigg_21
- Track 25 : FlyCatcher_28, Toro_27
- Track 26 : RyeScarlet_27, EdogawaKiddo_24, Jiawan_25
- Track 27 : Holex_25
- Track 28 : Sachima_24, Lilleskat_24, Onglai_25, Hanray_25

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

The start number called the most often in the published annotations is 4, it was called in 5 of the 9 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• A6_21, Aeneas_25, BK1_21, GMonster_22, Inyanga_22, PhrostyMug_23, ProMouse_22, Sandaddy_22, Sanya_22, ShortQueendom_22, Snickers_26, StewieG_22, Teodoridan_21, TinyPebbles_26, U2_23,

Genes that have the "Most Annotated" start but do not call it:
• Bethlehem_23, EdogawaKiddo_24, Hanray_25, Holex_25, Jiawan_25, Lilleskat_24, Onglai_25, RyeScarlet_27, Sachima_24,

Genes that do not have the "Most Annotated" start:
• AnnaL29_28, Bradman_24, C3_23, Caraxes_24, Che12_27, Colin_29, DontArgue_23, DustyMartin_27, EZMoney23_29, FlyCatcher_28, Koduck_25, MajorMajor_24, Mkhuseli_24, Petersenfast_24, Quokka_23, Rosa24_23, Rowdy_27, Shapes_27, Sknot_26, Sunhee_23, SwirlSquare_27, Toro_27, Twigg_21, WeiHuaDA_31,

Summary by start number:

Start 1:
• Found in 11 of 48 (22.9%) of genes in pham
• No Manual Annotations of this start.
• Called 45.5% of time when present
• Phage (with cluster) where this start called: Hanray_25 (A9), Holex_25 (A9), Lilleskat_24 (A9), Onglai_25 (A9), Sachima_24 (A9),

Start 2:
• Found in 2 of 48 (4.2%) of genes in pham
• Manual Annotations of this start: 1 of 9
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Bethlehem_23 (A1), Mkhuseli_24 (A1),

Start 3:
• Found in 8 of 48 (16.7%) of genes in pham
• No Manual Annotations of this start.
• Called 37.5% of time when present
• Phage (with cluster) where this start called: EdogawaKiddo_24 (A9), Jiawan_25 (A9), RyeScarlet_27 (A9),

Start 4:
• Found in 24 of 48 (50.0%) of genes in pham
• Manual Annotations of this start: 5 of 9
• Called 62.5% of time when present
• Phage (with cluster) where this start called: A6_21 (A1), Aeneas_25 (A1), BK1_21 (A1), GMonster_22 (A1), Inyanga_22 (A1), PhrostyMug_23 (A1), ProMouse_22 (A1), Sandaddy_22 (A1), Sanya_22 (A1), ShortQueendom_22 (A1), Snickers_26 (A3), StewieG_22 (A1), Teodoridan_21 (A1), TinyPebbles_26 (A3), U2_23 (A1),

Start 6:
• Found in 9 of 48 (18.8%) of genes in pham
• Manual Annotations of this start: 2 of 9
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Bradman_24 (A2), C3_23 (A2), Caraxes_24 (A2), Che12_27 (A2), EZMoney23_29 (A2), MajorMajor_24 (A2),

Quokka_23 (A2), Rosa24_23 (A4), SwirlSquare_27 (A2),

Start 7:
• Found in 1 of 48 (2.1%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Petersenfast_24 (A11),

Start 8:
• Found in 4 of 48 (8.3%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: DontArgue_23 (A10), DustyMartin_27 (A10), Rowdy_27 (A10), Shapes_27 (A10),

Start 10:
• Found in 13 of 48 (27.1%) of genes in pham
• Manual Annotations of this start: 1 of 9
• Called 38.5% of time when present
• Phage (with cluster) where this start called: AnnaL29_28 (A2), Colin_29 (A2), Koduck_25 (A2), Sknot_26 (A2), WeiHuaDA_31 (A2),

Start 11:
• Found in 1 of 48 (2.1%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Sunhee_23 (A14),

Start 13:
• Found in 5 of 48 (10.4%) of genes in pham
• No Manual Annotations of this start.
• Called 20.0% of time when present
• Phage (with cluster) where this start called: Twigg_21 (A5),

Start 15:
• Found in 2 of 48 (4.2%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: FlyCatcher_28 (A7), Toro_27 (A7),

Summary by clusters:

There are 10 clusters represented in this pham: A14, A11, A10, A1, A3, A2, A5, A4, A7, A9,

Info for manual annotations of cluster A1:
•Start number 2 was manually annotated 1 time for cluster A1.
•Start number 4 was manually annotated 5 times for cluster A1.

Info for manual annotations of cluster A2:

•Start number 6 was manually annotated 2 times for cluster A2.
•Start number 10 was manually annotated 1 time for cluster A2.

Gene Information:

Gene: A6_21 Start: 15547, Stop: 15918, Start Num: 4
Candidate Starts for A6_21:
(Start: 4 @15547 has 5 MA's), (22, 15736), (25, 15811), (31, 15868), (33, 15874),

Gene: Aeneas_25 Start: 16311, Stop: 16682, Start Num: 4
Candidate Starts for Aeneas_25:
(Start: 4 @16311 has 5 MA's), (22, 16500), (31, 16632), (33, 16638),

Gene: AnnaL29_28 Start: 18178, Stop: 18489, Start Num: 10
Candidate Starts for AnnaL29_28:
(Start: 10 @18178 has 1 MA's), (21, 18286), (23, 18310), (28, 18424), (30, 18430),

Gene: BK1_21 Start: 15547, Stop: 15918, Start Num: 4
Candidate Starts for BK1_21:
(Start: 4 @15547 has 5 MA's), (22, 15736), (25, 15811), (31, 15868), (33, 15874),

Gene: Bethlehem_23 Start: 17213, Stop: 17614, Start Num: 2
Candidate Starts for Bethlehem_23:
(Start: 2 @17213 has 1 MA's), (Start: 4 @17243 has 5 MA's), (22, 17432), (31, 17564), (33, 17570),

Gene: Bradman_24 Start: 15185, Stop: 15538, Start Num: 6
Candidate Starts for Bradman_24:
(Start: 6 @15185 has 2 MA's), (Start: 10 @15233 has 1 MA's), (28, 15473), (30, 15479),

Gene: C3_23 Start: 16308, Stop: 16661, Start Num: 6
Candidate Starts for C3_23:
(Start: 6 @16308 has 2 MA's), (Start: 10 @16356 has 1 MA's), (21, 16464), (24, 16491), (28, 16596), (30, 16602),

Gene: Caraxes_24 Start: 14918, Stop: 15277, Start Num: 6
Candidate Starts for Caraxes_24:
(Start: 6 @14918 has 2 MA's), (Start: 10 @14966 has 1 MA's), (21, 15074), (22, 15092), (28, 15212), (30, 15218),

Gene: Che12_27 Start: 15178, Stop: 15537, Start Num: 6
Candidate Starts for Che12_27:
(Start: 6 @15178 has 2 MA's), (Start: 10 @15226 has 1 MA's), (21, 15334), (22, 15352), (28, 15472), (30, 15478),

Gene: Colin_29 Start: 18010, Stop: 18321, Start Num: 10
Candidate Starts for Colin_29:

(Start: 10 @18010 has 1 MA's), (21, 18118), (22, 18136), (23, 18142), (28, 18256), (30, 18262),

Gene: DontArgue_23 Start: 13643, Stop: 14041, Start Num: 8
Candidate Starts for DontArgue_23:
(8, 13643), (9, 13646), (13, 13670), (17, 13739), (20, 13751), (22, 13781), (23, 13787), (27, 13856), (33, 13916), (36, 13958), (37, 13976),

Gene: DustyMartin_27 Start: 15449, Stop: 15850, Start Num: 8
Candidate Starts for DustyMartin_27:
(8, 15449), (13, 15476), (17, 15545), (20, 15557), (22, 15587), (23, 15593), (33, 15725), (36, 15767), (37, 15785),

Gene: EZMoney23_29 Start: 18248, Stop: 18607, Start Num: 6
Candidate Starts for EZMoney23_29:
(Start: 6 @18248 has 2 MA's), (Start: 10 @18296 has 1 MA's), (21, 18404), (23, 18428), (28, 18542), (30, 18548),

Gene: EdogawaKiddo_24 Start: 17045, Stop: 17461, Start Num: 3
Candidate Starts for EdogawaKiddo_24:
(1, 16961), (3, 17045), (Start: 4 @17060 has 5 MA's), (18, 17210), (21, 17231), (23, 17255), (33, 17381),

Gene: FlyCatcher_28 Start: 17296, Stop: 17556, Start Num: 15
Candidate Starts for FlyCatcher_28:
(12, 17266), (15, 17296), (28, 17506), (29, 17509), (33, 17521),

Gene: GMonster_22 Start: 15811, Stop: 16182, Start Num: 4
Candidate Starts for GMonster_22:
(Start: 4 @15811 has 5 MA's), (22, 16000), (31, 16132), (33, 16138),

Gene: Hanray_25 Start: 16965, Stop: 17465, Start Num: 1
Candidate Starts for Hanray_25:
(1, 16965), (3, 17049), (Start: 4 @17064 has 5 MA's), (18, 17214), (21, 17235), (23, 17259), (33, 17385),

Gene: Holex_25 Start: 16965, Stop: 17465, Start Num: 1
Candidate Starts for Holex_25:
(1, 16965), (3, 17049), (Start: 4 @17064 has 5 MA's), (18, 17214), (21, 17235), (23, 17259), (33, 17385),

Gene: Inyanga_22 Start: 15755, Stop: 16126, Start Num: 4
Candidate Starts for Inyanga_22:
(Start: 4 @15755 has 5 MA's), (22, 15944), (25, 16019), (31, 16076), (33, 16082),

Gene: Jiawan_25 Start: 17081, Stop: 17497, Start Num: 3
Candidate Starts for Jiawan_25:
(1, 16997), (3, 17081), (Start: 4 @17096 has 5 MA's), (18, 17246), (21, 17267), (23, 17291), (33, 17417),

Gene: Koduck_25 Start: 15488, Stop: 15793, Start Num: 10
Candidate Starts for Koduck_25:
(Start: 10 @15488 has 1 MA's), (28, 15728), (30, 15734),

Gene: Lilleskat_24 Start: 16961, Stop: 17461, Start Num: 1
Candidate Starts for Lilleskat_24:
(1, 16961), (3, 17045), (Start: 4 @17060 has 5 MA's), (18, 17210), (21, 17231), (23, 17255), (33, 17381),

Gene: MajorMajor_24 Start: 15185, Stop: 15538, Start Num: 6
Candidate Starts for MajorMajor_24:
(Start: 6 @15185 has 2 MA's), (Start: 10 @15233 has 1 MA's), (28, 15473), (30, 15479),

Gene: Mkhuseli_24 Start: 16008, Stop: 16409, Start Num: 2
Candidate Starts for Mkhuseli_24:
(Start: 2 @16008 has 1 MA's), (5, 16047), (22, 16227), (31, 16359), (33, 16365),

Gene: Onglai_25 Start: 15295, Stop: 15795, Start Num: 1
Candidate Starts for Onglai_25:
(1, 15295), (3, 15379), (Start: 4 @15394 has 5 MA's), (18, 15544), (21, 15565), (23, 15589), (33, 15715),

Gene: Petersenfast_24 Start: 16853, Stop: 17167, Start Num: 7
Candidate Starts for Petersenfast_24:
(7, 16853), (16, 16928), (19, 16958), (21, 16976), (24, 17003), (32, 17123), (33, 17126),

Gene: PhrostyMug_23 Start: 16015, Stop: 16386, Start Num: 4
Candidate Starts for PhrostyMug_23:
(Start: 4 @16015 has 5 MA's), (22, 16204), (31, 16336), (33, 16342),

Gene: ProMouse_22 Start: 16469, Stop: 16840, Start Num: 4
Candidate Starts for ProMouse_22:
(Start: 4 @16469 has 5 MA's), (22, 16658), (31, 16790), (33, 16796),

Gene: Quokka_23 Start: 15185, Stop: 15538, Start Num: 6
Candidate Starts for Quokka_23:
(Start: 6 @15185 has 2 MA's), (Start: 10 @15233 has 1 MA's), (28, 15473), (30, 15479),

Gene: Rosa24_23 Start: 15507, Stop: 15938, Start Num: 6
Candidate Starts for Rosa24_23:
(Start: 6 @15507 has 2 MA's), (14, 15585), (22, 15681), (24, 15690),

Gene: Rowdy_27 Start: 15449, Stop: 15850, Start Num: 8
Candidate Starts for Rowdy_27:
(8, 15449), (13, 15476), (17, 15545), (20, 15557), (22, 15587), (23, 15593), (33, 15725), (36, 15767), (37, 15785),

Gene: RyeScarlet_27 Start: 17049, Stop: 17465, Start Num: 3
Candidate Starts for RyeScarlet_27:
(1, 16965), (3, 17049), (Start: 4 @17064 has 5 MA's), (18, 17214), (21, 17235), (23, 17259), (33, 17385),

Gene: Sachima_24 Start: 16961, Stop: 17461, Start Num: 1
Candidate Starts for Sachima_24:
(1, 16961), (3, 17045), (Start: 4 @17060 has 5 MA's), (18, 17210), (21, 17231), (23, 17255), (33, 17381),

Gene: Sandaddy_22 Start: 15945, Stop: 16316, Start Num: 4
Candidate Starts for Sandaddy_22:
(Start: 4 @15945 has 5 MA's), (22, 16134), (25, 16209), (31, 16266), (33, 16272),

Gene: Sanya_22 Start: 16607, Stop: 16978, Start Num: 4
Candidate Starts for Sanya_22:
(Start: 4 @16607 has 5 MA's), (22, 16796), (24, 16805), (25, 16871), (31, 16928), (33, 16934),

Gene: Shapes_27 Start: 15449, Stop: 15850, Start Num: 8
Candidate Starts for Shapes_27:
(8, 15449), (13, 15476), (17, 15545), (20, 15557), (22, 15587), (23, 15593), (33, 15725), (36, 15767), (37, 15785),

Gene: ShortQueendom_22 Start: 15905, Stop: 16276, Start Num: 4
Candidate Starts for ShortQueendom_22:
(Start: 4 @15905 has 5 MA's), (22, 16094), (25, 16169), (31, 16226), (33, 16232),

Gene: Sknot_26 Start: 16372, Stop: 16683, Start Num: 10
Candidate Starts for Sknot_26:
(Start: 10 @16372 has 1 MA's), (21, 16480), (24, 16507), (26, 16573), (28, 16618), (30, 16624),

Gene: Snickers_26 Start: 15606, Stop: 15953, Start Num: 4
Candidate Starts for Snickers_26:
(1, 15507), (Start: 4 @15606 has 5 MA's), (21, 15777), (23, 15801), (28, 15903),

Gene: StewieG_22 Start: 15788, Stop: 16159, Start Num: 4
Candidate Starts for StewieG_22:
(Start: 4 @15788 has 5 MA's), (22, 15977), (25, 16052), (31, 16109), (33, 16115),

Gene: Sunhee_23 Start: 15505, Stop: 15801, Start Num: 11
Candidate Starts for Sunhee_23:
(11, 15505), (28, 15742), (30, 15748), (35, 15790),

Gene: SwirlSquare_27 Start: 15091, Stop: 15450, Start Num: 6
Candidate Starts for SwirlSquare_27:
(Start: 6 @15091 has 2 MA's), (Start: 10 @15139 has 1 MA's), (28, 15385), (30, 15391),

Gene: Teodoridan_21 Start: 15353, Stop: 15724, Start Num: 4
Candidate Starts for Teodoridan_21:
(Start: 4 @15353 has 5 MA's), (22, 15542), (25, 15617), (31, 15674), (33, 15680),

Gene: TinyPebbles_26 Start: 15715, Stop: 16062, Start Num: 4
Candidate Starts for TinyPebbles_26:
(1, 15616), (Start: 4 @15715 has 5 MA's), (21, 15886), (23, 15910), (28, 16012),

Gene: Toro_27 Start: 17296, Stop: 17556, Start Num: 15
Candidate Starts for Toro_27:
(12, 17266), (15, 17296), (28, 17506), (29, 17509), (33, 17521),

Gene: Twigg_21 Start: 14923, Stop: 15210, Start Num: 13
Candidate Starts for Twigg_21:
(1, 14746), (13, 14923), (32, 15172), (33, 15175), (34, 15205),

Gene: U2_23 Start: 16127, Stop: 16498, Start Num: 4
Candidate Starts for U2_23:
(Start: 4 @16127 has 5 MA's), (22, 16316), (31, 16448), (33, 16454),

Gene: WeiHuaDA_31 Start: 18580, Stop: 18891, Start Num: 10
Candidate Starts for WeiHuaDA_31:
(Start: 10 @18580 has 1 MA's), (21, 18688), (23, 18712), (24, 18715), (28, 18826), (30, 18832),