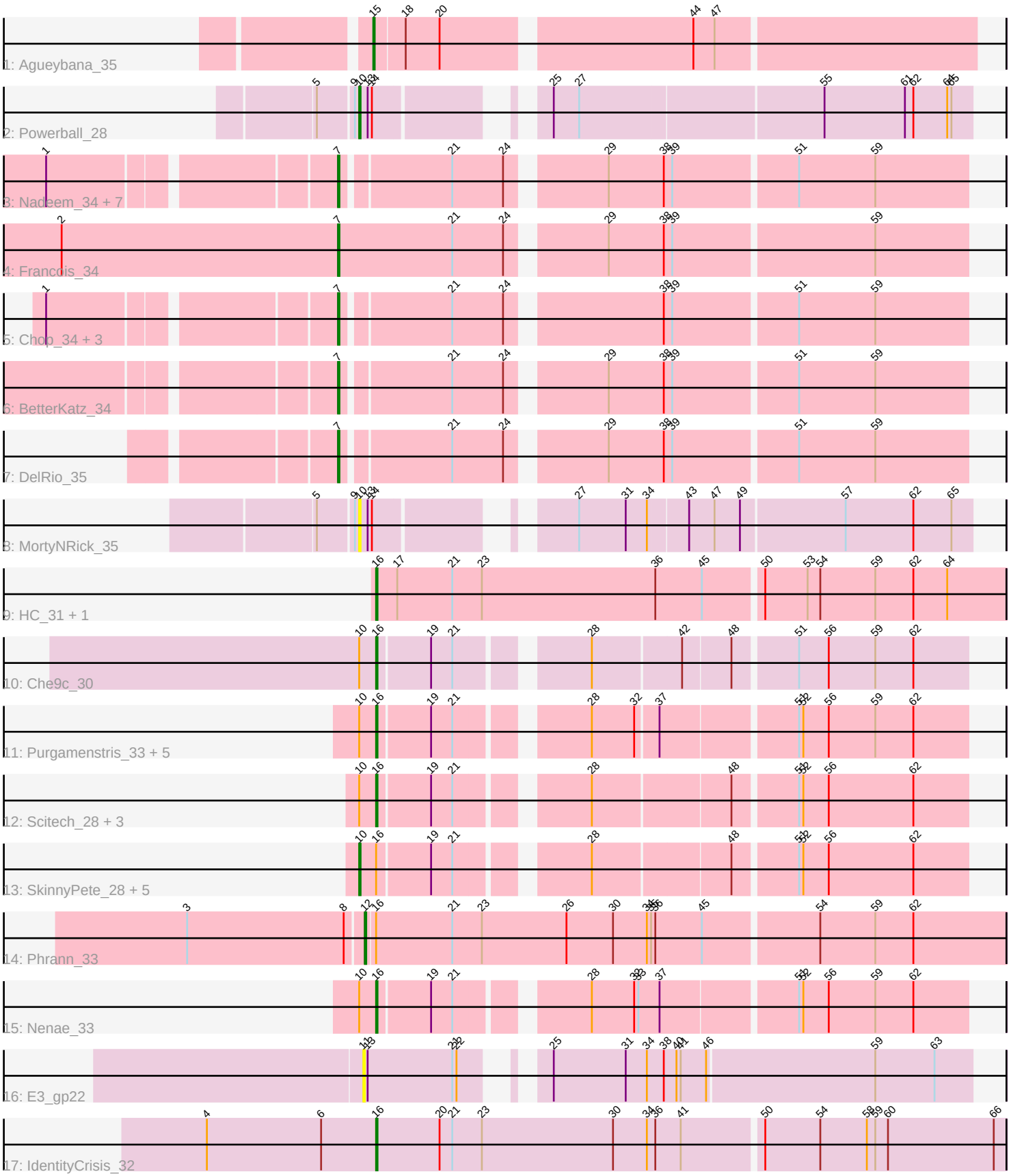
Pham 198204


1: Agueybana_35
2: Powerball_28
3: Nadeem_34 + 7
4: Francois_34
5: Chop_34 + 3
6: BetterKatz_34
7: DelRio_35
8: MortyNRick_35
9: HC_31 + 1
10: Che9c_30
11: Purgamenstris_33 + 5
12: Scitech_28 + 3
13: SkinnyPete_28 + 5
14: Phrann_33
15: Nenae_33
16: E3_gp22
17: IdentityCrisis_32

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 198204 Report

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

Pham number 198204 has 41 members, 5 are drafts.

Phages represented in each track:
• Track 1 : Agueybana_35
• Track 2 : Powerball_28
• Track 3 : Nadeem_34, Bock_34, Brylie_34, Parada_34, Pimento_34, Mulch_34, NancyRae_34, WheatThin_34
• Track 4 : Francois_34
• Track 5 : Chop_34, Hamood_34, Ayotoya_34, GrandSlam_34
• Track 6 : BetterKatz_34
• Track 7 : DelRio_35
• Track 8 : MortyNRick_35
• Track 9 : HC_31, Babsiella_30
• Track 10 : Che9c_30
• Track 11 : Purgamenstris_33, Hanako_33, BabeRuth_34, PhancyPhin_33, ShrimpFriedEgg_33, Redi_33
• Track 12 : Scitech_28, Journey_31, Silvy_31, Charlie_31
• Track 13 : SkinnyPete_28, Bosection6_31, Aggie_31, EGUnicorn_32, Xeno_30, Philonius_31
• Track 14 : Phrann_33
• Track 15 : Nenae_33
• Track 16 : E3_gp22
• Track 17 : IdentityCrisis_32

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

The start number called the most often in the published annotations is 7, it was called in 15 of the 36 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Ayotoya_34, BetterKatz_34, Bock_34, Brylie_34, Chop_34, DelRio_35, Francois_34, GrandSlam_34, Hamood_34, Mulch_34, Nadeem_34, NancyRae_34, Parada_34, Pimento_34, WheatThin_34,

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

Genes that do not have the "Most Annotated" start:
• Aggie_31, Agueybana_35, BabeRuth_34, Babsiella_30, Bosection6_31, Charlie_31, Che9c_30, E3_gp22, EGUnicorn_32, HC_31, Hanako_33, IdentityCrisis_32, Journey_31, MortyNRick_35, Nenae_33, PhancyPhin_33, Philonius_31, Phrann_33, Powerball_28, Purgamenstris_33, Redi_33, Scitech_28, ShrimpFriedEgg_33, Silvy_31, SkinnyPete_28, Xeno_30,

Summary by start number:

Start 7:
• Found in 15 of 41 (36.6%) of genes in pham
• Manual Annotations of this start: 15 of 36
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Ayotoya_34 (DI), BetterKatz_34 (DI), Bock_34 (DI), Brylie_34 (DI), Chop_34 (DI), DelRio_35 (DI), Francois_34 (DI), GrandSlam_34 (DI), Hamood_34 (DI), Mulch_34 (DI), Nadeem_34 (DI), NancyRae_34 (DI), Parada_34 (DI), Pimento_34 (DI), WheatThin_34 (DI),

Start 10:
• Found in 20 of 41 (48.8%) of genes in pham
• Manual Annotations of this start: 5 of 36
• Called 40.0% of time when present
• Phage (with cluster) where this start called: Aggie_31 (N), Bosection6_31 (N), EGUnicorn_32 (N), MortyNRick_35 (DN), Philonius_31 (N), Powerball_28 (CZ4), SkinnyPete_28 (N), Xeno_30 (N),

Start 11:
• Found in 1 of 41 (2.4%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: E3_gp22 (singleton),

Start 12:
• Found in 1 of 41 (2.4%) of genes in pham
• Manual Annotations of this start: 1 of 36
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Phrann_33 (N),

Start 15:
• Found in 1 of 41 (2.4%) of genes in pham
• Manual Annotations of this start: 1 of 36
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Agueybana_35 (CZ1),

Start 16:
• Found in 22 of 41 (53.7%) of genes in pham
• Manual Annotations of this start: 14 of 36
• Called 68.2% of time when present
• Phage (with cluster) where this start called: BabeRuth_34 (N), Babsiella_30 (I1), Charlie_31 (N), Che9c_30 (I2), HC_31 (I1), Hanako_33 (N), IdentityCrisis_32 (singleton), Journey_31 (N), Nenae_33 (N), PhancyPhin_33 (N), Purgamenstris_33 (N), Redi_33 (N), Scitech_28 (N), ShrimpFriedEgg_33 (N), Silvy_31 (N),

Summary by clusters:

There are 8 clusters represented in this pham: DN, singleton, I2, DI, I1, CZ1, CZ4, N,

Info for manual annotations of cluster CZ1:
•Start number 15 was manually annotated 1 time for cluster CZ1.

Info for manual annotations of cluster CZ4:
•Start number 10 was manually annotated 1 time for cluster CZ4.

Info for manual annotations of cluster DI:
•Start number 7 was manually annotated 15 times for cluster DI.

Info for manual annotations of cluster I1:
•Start number 16 was manually annotated 2 times for cluster I1.

Info for manual annotations of cluster I2:
•Start number 16 was manually annotated 1 time for cluster I2.

Info for manual annotations of cluster N:
•Start number 10 was manually annotated 4 times for cluster N.
•Start number 12 was manually annotated 1 time for cluster N.
•Start number 16 was manually annotated 10 times for cluster N.

Gene Information:

Gene: Aggie_31 Start: 25578, Stop: 25183, Start Num: 10
Candidate Starts for Aggie_31:
(Start: 10 @25578 has 5 MA's), (Start: 16 @25566 has 14 MA's), (19, 25530), (21, 25515), (28, 25437), (48, 25344), (51, 25302), (52, 25299), (56, 25281), (62, 25221),

Gene: Agueybana_35 Start: 29277, Stop: 28873, Start Num: 15
Candidate Starts for Agueybana_35:
(Start: 15 @29277 has 1 MA's), (18, 29256), (20, 29232), (44, 29067), (47, 29052),

Gene: Ayotoya_34 Start: 28865, Stop: 28449, Start Num: 7
Candidate Starts for Ayotoya_34:
(1, 29051), (Start: 7 @28865 has 15 MA's), (21, 28793), (24, 28757), (38, 28658), (39, 28652), (51, 28568), (59, 28514),

Gene: BabeRuth_34 Start: 27217, Stop: 26834, Start Num: 16
Candidate Starts for BabeRuth_34:
(Start: 10 @27229 has 5 MA's), (Start: 16 @27217 has 14 MA's), (19, 27181), (21, 27166), (28, 27088), (32, 27058), (37, 27043), (51, 26953), (52, 26950), (56, 26932), (59, 26899), (62, 26872),

Gene: Babsiella_30 Start: 26423, Stop: 25983, Start Num: 16
Candidate Starts for Babsiella_30:
(Start: 16 @26423 has 14 MA's), (17, 26408), (21, 26369), (23, 26348), (36, 26225), (45, 26192), (50, 26153), (53, 26123), (54, 26114), (59, 26075), (62, 26048), (64, 26024),

Gene: BetterKatz_34 Start: 28336, Stop: 27920, Start Num: 7
Candidate Starts for BetterKatz_34:
(Start: 7 @28336 has 15 MA's), (21, 28264), (24, 28228), (29, 28168), (38, 28129), (39, 28123), (51, 28039), (59, 27985),

Gene: Bock_34 Start: 28086, Stop: 27670, Start Num: 7
Candidate Starts for Bock_34:
(1, 28272), (Start: 7 @28086 has 15 MA's), (21, 28014), (24, 27978), (29, 27918), (38, 27879), (39, 27873), (51, 27789), (59, 27735),

Gene: Bosection6_31 Start: 25577, Stop: 25182, Start Num: 10
Candidate Starts for Bosection6_31:
(Start: 10 @25577 has 5 MA's), (Start: 16 @25565 has 14 MA's), (19, 25529), (21, 25514), (28, 25436), (48, 25343), (51, 25301), (52, 25298), (56, 25280), (62, 25220),

Gene: Brylie_34 Start: 28074, Stop: 27658, Start Num: 7
Candidate Starts for Brylie_34:
(1, 28260), (Start: 7 @28074 has 15 MA's), (21, 28002), (24, 27966), (29, 27906), (38, 27867), (39, 27861), (51, 27777), (59, 27723),

Gene: Charlie_31 Start: 25565, Stop: 25182, Start Num: 16
Candidate Starts for Charlie_31:
(Start: 10 @25577 has 5 MA's), (Start: 16 @25565 has 14 MA's), (19, 25529), (21, 25514), (28, 25436), (48, 25343), (51, 25301), (52, 25298), (56, 25280), (62, 25220),

Gene: Che9c_30 Start: 27077, Stop: 26694, Start Num: 16
Candidate Starts for Che9c_30:
(Start: 10 @27089 has 5 MA's), (Start: 16 @27077 has 14 MA's), (19, 27041), (21, 27026), (28, 26948), (42, 26888), (48, 26855), (51, 26813), (56, 26792), (59, 26759), (62, 26732),

Gene: Chop_34 Start: 28613, Stop: 28197, Start Num: 7
Candidate Starts for Chop_34:
(1, 28799), (Start: 7 @28613 has 15 MA's), (21, 28541), (24, 28505), (38, 28406), (39, 28400), (51, 28316), (59, 28262),

Gene: DelRio_35 Start: 29263, Stop: 28847, Start Num: 7
Candidate Starts for DelRio_35:
(Start: 7 @29263 has 15 MA's), (21, 29191), (24, 29155), (29, 29095), (38, 29056), (39, 29050), (51, 28966), (59, 28912),

Gene: E3_gp22 Start: 9420, Stop: 9812, Start Num: 11
Candidate Starts for E3_gp22:
(11, 9420), (13, 9423), (21, 9483), (22, 9486), (25, 9519), (31, 9570), (34, 9585), (38, 9597), (40, 9606), (41, 9609), (46, 9627), (59, 9744), (63, 9786),

Gene: EGUnicorn_32 Start: 25577, Stop: 25182, Start Num: 10
Candidate Starts for EGUnicorn_32:
(Start: 10 @25577 has 5 MA's), (Start: 16 @25565 has 14 MA's), (19, 25529), (21, 25514), (28, 25436), (48, 25343), (51, 25301), (52, 25298), (56, 25280), (62, 25220),

Gene: Francois_34 Start: 28109, Stop: 27684, Start Num: 7
Candidate Starts for Francois_34:

(2, 28304), (Start: 7 @28109 has 15 MA's), (21, 28028), (24, 27992), (29, 27932), (38, 27893), (39, 27887), (59, 27749),

Gene: GrandSlam_34 Start: 28613, Stop: 28197, Start Num: 7
Candidate Starts for GrandSlam_34:
(1, 28799), (Start: 7 @28613 has 15 MA's), (21, 28541), (24, 28505), (38, 28406), (39, 28400), (51, 28316), (59, 28262),

Gene: HC_31 Start: 26479, Stop: 26039, Start Num: 16
Candidate Starts for HC_31:
(Start: 16 @26479 has 14 MA's), (17, 26464), (21, 26425), (23, 26404), (36, 26281), (45, 26248), (50, 26209), (53, 26179), (54, 26170), (59, 26131), (62, 26104), (64, 26080),

Gene: Hamood_34 Start: 28613, Stop: 28197, Start Num: 7
Candidate Starts for Hamood_34:
(1, 28799), (Start: 7 @28613 has 15 MA's), (21, 28541), (24, 28505), (38, 28406), (39, 28400), (51, 28316), (59, 28262),

Gene: Hanako_33 Start: 27216, Stop: 26833, Start Num: 16
Candidate Starts for Hanako_33:
(Start: 10 @27228 has 5 MA's), (Start: 16 @27216 has 14 MA's), (19, 27180), (21, 27165), (28, 27087), (32, 27057), (37, 27042), (51, 26952), (52, 26949), (56, 26931), (59, 26898), (62, 26871),

Gene: IdentityCrisis_32 Start: 25735, Stop: 25295, Start Num: 16
Candidate Starts for IdentityCrisis_32:
(4, 25855), (6, 25774), (Start: 16 @25735 has 14 MA's), (20, 25690), (21, 25681), (23, 25660), (30, 25567), (34, 25543), (36, 25537), (41, 25519), (50, 25465), (54, 25426), (58, 25393), (59, 25387), (60, 25378), (66, 25303),

Gene: Journey_31 Start: 25565, Stop: 25182, Start Num: 16
Candidate Starts for Journey_31:
(Start: 10 @25577 has 5 MA's), (Start: 16 @25565 has 14 MA's), (19, 25529), (21, 25514), (28, 25436), (48, 25343), (51, 25301), (52, 25298), (56, 25280), (62, 25220),

Gene: MortyNRick_35 Start: 28923, Stop: 28537, Start Num: 10
Candidate Starts for MortyNRick_35:
(5, 28950), (9, 28926), (Start: 10 @28923 has 5 MA's), (13, 28917), (14, 28914), (27, 28809), (31, 28776), (34, 28761), (43, 28734), (47, 28716), (49, 28698), (57, 28626), (62, 28578), (65, 28551),

Gene: Mulch_34 Start: 28074, Stop: 27658, Start Num: 7
Candidate Starts for Mulch_34:
(1, 28260), (Start: 7 @28074 has 15 MA's), (21, 28002), (24, 27966), (29, 27906), (38, 27867), (39, 27861), (51, 27777), (59, 27723),

Gene: Nadeem_34 Start: 28074, Stop: 27658, Start Num: 7
Candidate Starts for Nadeem_34:
(1, 28260), (Start: 7 @28074 has 15 MA's), (21, 28002), (24, 27966), (29, 27906), (38, 27867), (39, 27861), (51, 27777), (59, 27723),

Gene: NancyRae_34 Start: 28084, Stop: 27668, Start Num: 7
Candidate Starts for NancyRae_34:
(1, 28270), (Start: 7 @28084 has 15 MA's), (21, 28012), (24, 27976), (29, 27916), (38, 27877), (39, 27871), (51, 27787), (59, 27733),

Gene: Nenae_33 Start: 27219, Stop: 26833, Start Num: 16
Candidate Starts for Nenae_33:
(Start: 10 @27231 has 5 MA's), (Start: 16 @27219 has 14 MA's), (19, 27183), (21, 27168), (28, 27090), (32, 27060), (33, 27057), (37, 27042), (51, 26952), (52, 26949), (56, 26931), (59, 26898), (62, 26871),

Gene: Parada_34 Start: 28074, Stop: 27658, Start Num: 7
Candidate Starts for Parada_34:
(1, 28260), (Start: 7 @28074 has 15 MA's), (21, 28002), (24, 27966), (29, 27906), (38, 27867), (39, 27861), (51, 27777), (59, 27723),

Gene: PhancyPhin_33 Start: 27213, Stop: 26830, Start Num: 16
Candidate Starts for PhancyPhin_33:
(Start: 10 @27225 has 5 MA's), (Start: 16 @27213 has 14 MA's), (19, 27177), (21, 27162), (28, 27084), (32, 27054), (37, 27039), (51, 26949), (52, 26946), (56, 26928), (59, 26895), (62, 26868),

Gene: Philonius_31 Start: 25568, Stop: 25173, Start Num: 10
Candidate Starts for Philonius_31:
(Start: 10 @25568 has 5 MA's), (Start: 16 @25556 has 14 MA's), (19, 25520), (21, 25505), (28, 25427), (48, 25334), (51, 25292), (52, 25289), (56, 25271), (62, 25211),

Gene: Phrann_33 Start: 27801, Stop: 27355, Start Num: 12
Candidate Starts for Phrann_33:
(3, 27924), (8, 27813), (Start: 12 @27801 has 1 MA's), (Start: 16 @27795 has 14 MA's), (21, 27741), (23, 27720), (26, 27660), (30, 27627), (34, 27603), (35, 27600), (36, 27597), (45, 27564), (54, 27486), (59, 27447), (62, 27420),

Gene: Pimento_34 Start: 27733, Stop: 27317, Start Num: 7
Candidate Starts for Pimento_34:
(1, 27919), (Start: 7 @27733 has 15 MA's), (21, 27661), (24, 27625), (29, 27565), (38, 27526), (39, 27520), (51, 27436), (59, 27382),

Gene: Powerball_28 Start: 25728, Stop: 25342, Start Num: 10
Candidate Starts for Powerball_28:
(5, 25755), (9, 25731), (Start: 10 @25728 has 5 MA's), (13, 25722), (14, 25719), (25, 25632), (27, 25614), (55, 25446), (61, 25389), (62, 25383), (64, 25359), (65, 25356),

Gene: Purgamenstris_33 Start: 27216, Stop: 26833, Start Num: 16
Candidate Starts for Purgamenstris_33:
(Start: 10 @27228 has 5 MA's), (Start: 16 @27216 has 14 MA's), (19, 27180), (21, 27165), (28, 27087), (32, 27057), (37, 27042), (51, 26952), (52, 26949), (56, 26931), (59, 26898), (62, 26871),

Gene: Redi_33 Start: 27216, Stop: 26833, Start Num: 16
Candidate Starts for Redi_33:
(Start: 10 @27228 has 5 MA's), (Start: 16 @27216 has 14 MA's), (19, 27180), (21, 27165), (28, 27087), (32, 27057), (37, 27042), (51, 26952), (52, 26949), (56, 26931), (59, 26898), (62, 26871),

Gene: Scitech_28 Start: 24742, Stop: 24359, Start Num: 16
Candidate Starts for Scitech_28:
(Start: 10 @24754 has 5 MA's), (Start: 16 @24742 has 14 MA's), (19, 24706), (21, 24691), (28, 24613), (48, 24520), (51, 24478), (52, 24475), (56, 24457), (62, 24397),

Gene: ShrimpFriedEgg_33 Start: 27216, Stop: 26833, Start Num: 16

Candidate Starts for ShrimpFriedEgg_33:
(Start: 10 @27228 has 5 MA's), (Start: 16 @27216 has 14 MA's), (19, 27180), (21, 27165), (28, 27087), (32, 27057), (37, 27042), (51, 26952), (52, 26949), (56, 26931), (59, 26898), (62, 26871),

Gene: Silvy_31 Start: 25566, Stop: 25183, Start Num: 16
Candidate Starts for Silvy_31:
(Start: 10 @25578 has 5 MA's), (Start: 16 @25566 has 14 MA's), (19, 25530), (21, 25515), (28, 25437), (48, 25344), (51, 25302), (52, 25299), (56, 25281), (62, 25221),

Gene: SkinnyPete_28 Start: 24617, Stop: 24222, Start Num: 10
Candidate Starts for SkinnyPete_28:
(Start: 10 @24617 has 5 MA's), (Start: 16 @24605 has 14 MA's), (19, 24569), (21, 24554), (28, 24476), (48, 24383), (51, 24341), (52, 24338), (56, 24320), (62, 24260),

Gene: WheatThin_34 Start: 28074, Stop: 27658, Start Num: 7
Candidate Starts for WheatThin_34:
(1, 28260), (Start: 7 @28074 has 15 MA's), (21, 28002), (24, 27966), (29, 27906), (38, 27867), (39, 27861), (51, 27777), (59, 27723),

Gene: Xeno_30 Start: 25343, Stop: 24948, Start Num: 10
Candidate Starts for Xeno_30:
(Start: 10 @25343 has 5 MA's), (Start: 16 @25331 has 14 MA's), (19, 25295), (21, 25280), (28, 25202), (48, 25109), (51, 25067), (52, 25064), (56, 25046), (62, 24986),