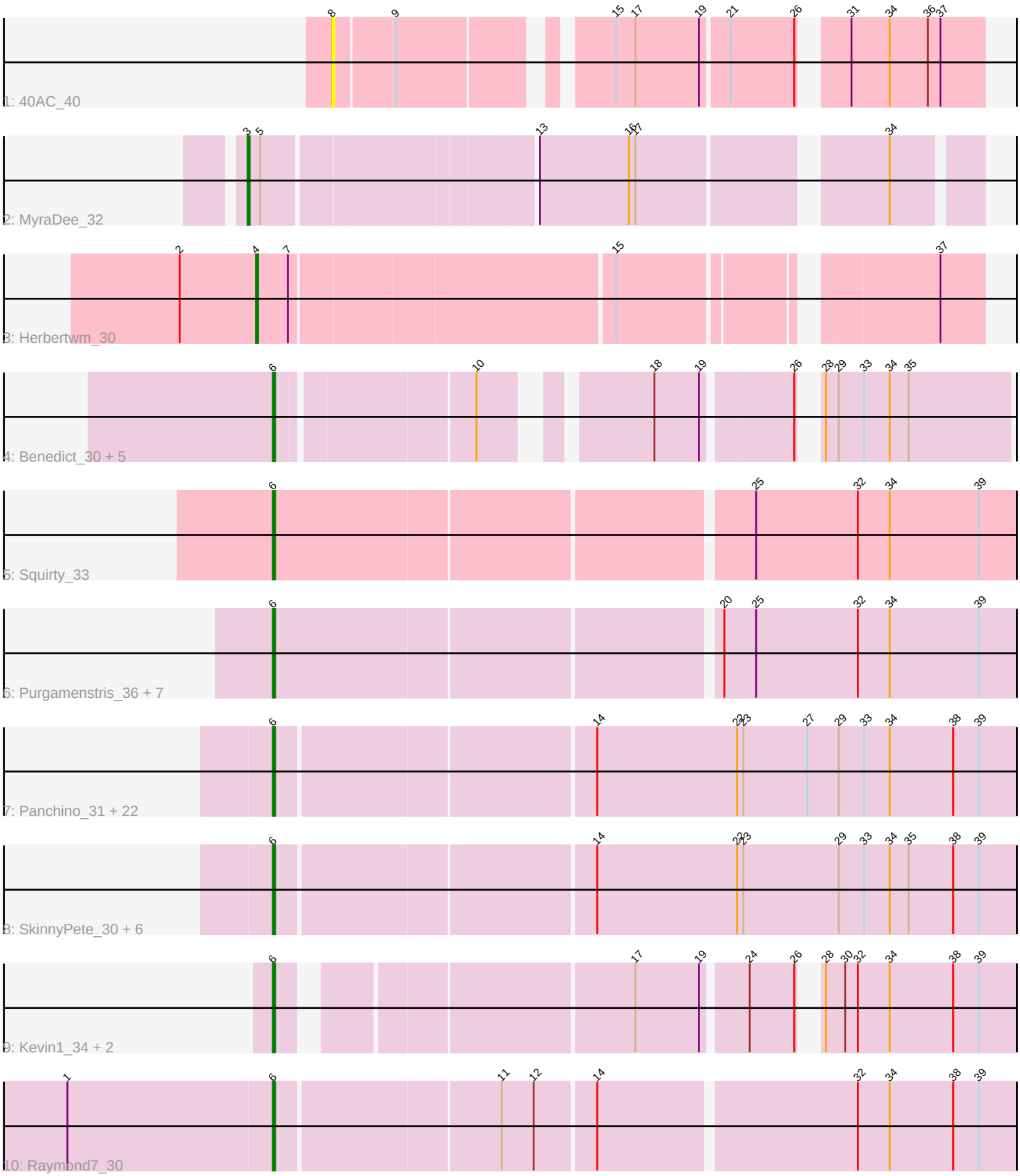
Pham 212673


8
9
15
17
19
21
26
31
34
36
37
1: 40AC_40
3
5
13
16
17
34
2: MyraDee_32
2
4
7
15
37
3: Herbertwm_30
6
10
18
19
26
28
29
33
34
35
4: Benedict_30 + 5
6
25
32
34
39
5: Squirty_33
6
20
25
32
34
39
6: Purgamenstris_36 + 7
6
14
27
29
33
34
38
39
7: Panchino_31 + 22
6
14
29
33
34
35
38
39
8: SkinnyPete_30 + 6
6
17
19
24
26
28
30
32
34
38
39
9: Kevin1_34 + 2
1
6
11
12
14
32
34
38
39
10: Raymond7_30

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 212673 Report

This analysis was run 02/22/25 on database version 588.

Pham number 212673 has 52 members, 2 are drafts.

Phages represented in each track:
• Track 1 : 40AC_40
• Track 2 : MyraDee_32
• Track 3 : Herbertwm_30
• Track 4 : Benedict_30, Airmid_30, Jabiru_30, Scorpia_31, ElTiger69_30, Naca_30
• Track 5 : Squirty_33
• Track 6 : Purgamenstris_36, Hanako_36, Phrann_36, PhancyPhin_36, Nenae_36, BabeRuth_37, ShrimpFriedEgg_36, Redi_36
• Track 7 : Panchino_31, Jamie19_32, Duplicity_35, Tapioca_36, Phloss_33, Gex_35, Carcharodon_35, Fulbright_34, Silvafighter_36, Xerxes_35, MichelleMyBell_33, Magsby_35, Melville_37, Shweta_32, Xeno_32, Andies_32, Snekmaggedon_32, Smurph_35, Chewbacca_36, Parmesanjohn_35, Schnauzer_35, Pipsqueaks_35, SpongeBob_32
• Track 8 : SkinnyPete_30, Bosection6_33, Aggie_33, Journey_33, Silvy_33, Charlie_33, Philonius_33
• Track 9 : Kevin1_34, Butters_36, Rubeelu_36
• Track 10 : Raymond7_30

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

The start number called the most often in the published annotations is 6, it was called in 48 of the 50 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Aggie_33, Airmid_30, Andies_32, BabeRuth_37, Benedict_30, Bosection6_33, Butters_36, Carcharodon_35, Charlie_33, Chewbacca_36, Duplicity_35, ElTiger69_30, Fulbright_34, Gex_35, Hanako_36, Jabiru_30, Jamie19_32, Journey_33, Kevin1_34, Magsby_35, Melville_37, MichelleMyBell_33, Naca_30, Nenae_36, Panchino_31, Parmesanjohn_35, PhancyPhin_36, Philonius_33, Phloss_33, Phrann_36, Pipsqueaks_35, Purgamenstris_36, Raymond7_30, Redi_36, Rubeelu_36, Schnauzer_35, Scorpia_31, ShrimpFriedEgg_36, Shweta_32, Silvafighter_36, Silvy_33, SkinnyPete_30, Smurph_35, Snekmaggedon_32, SpongeBob_32, Squirty_33, Tapioca_36, Xeno_32, Xerxes_35,

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

•

Genes that do not have the "Most Annotated" start:
• 40AC_40, Herbertwm_30, MyraDee_32,

Summary by start number:

Start 3:
• Found in 1 of 52 (1.9%) of genes in pham
• Manual Annotations of this start: 1 of 50
• Called 100.0% of time when present
• Phage (with cluster) where this start called: MyraDee_32 (A18),

Start 4:
• Found in 1 of 52 (1.9%) of genes in pham
• Manual Annotations of this start: 1 of 50
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Herbertwm_30 (A2),

Start 6:
• Found in 49 of 52 (94.2%) of genes in pham
• Manual Annotations of this start: 48 of 50
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Aggie_33 (N), Airmid_30 (A5), Andies_32 (N), BabeRuth_37 (N), Benedict_30 (A5), Bosection6_33 (N), Butters_36 (N), Carcharodon_35 (N), Charlie_33 (N), Chewbacca_36 (N), Duplicity_35 (N), ElTiger69_30 (A5), Fulbright_34 (N), Gex_35 (N), Hanako_36 (N), Jabiru_30 (A5), Jamie19_32 (N), Journey_33 (N), Kevin1_34 (N), Magsby_35 (N), Melville_37 (N), MichelleMyBell_33 (N), Naca_30 (A5), Nenae_36 (N), Panchino_31 (N), Parmesanjohn_35 (N), PhancyPhin_36 (N), Philonius_33 (N), Phloss_33 (N), Phrann_36 (N), Pipsqueaks_35 (N), Purgamenstris_36 (N), Raymond7_30 (N), Redi_36 (N), Rubeelu_36 (N), Schnauzer_35 (N), Scorpia_31 (A5), ShrimpFriedEgg_36 (N), Shweta_32 (N), Silvafighter_36 (N), Silvy_33 (N), SkinnyPete_30 (N), Smurph_35 (N), Snekmaggedon_32 (N), SpongeBob_32 (N), Squirty_33 (F3), Tapioca_36 (N), Xeno_32 (N), Xerxes_35 (N),

Start 8:
• Found in 1 of 52 (1.9%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: 40AC_40 (A17),

Summary by clusters:

There are 6 clusters represented in this pham: A17, F3, A18, N, A2, A5,

Info for manual annotations of cluster A18:
•Start number 3 was manually annotated 1 time for cluster A18.

Info for manual annotations of cluster A2:
•Start number 4 was manually annotated 1 time for cluster A2.

Info for manual annotations of cluster A5:
•Start number 6 was manually annotated 6 times for cluster A5.

Info for manual annotations of cluster F3:
•Start number 6 was manually annotated 1 time for cluster F3.

Info for manual annotations of cluster N:
•Start number 6 was manually annotated 41 times for cluster N.

Gene Information:

Gene: 40AC_40 Start: 29229, Stop: 29498, Start Num: 8
Candidate Starts for 40AC_40:
(8, 29229), (9, 29256), (15, 29340), (17, 29349), (19, 29379), (21, 29391), (26, 29421), (31, 29436), (34, 29454), (36, 29472), (37, 29478),

Gene: Aggie_33 Start: 26384, Stop: 26043, Start Num: 6
Candidate Starts for Aggie_33:
(Start: 6 @26384 has 48 MA's), (14, 26240), (22, 26174), (23, 26171), (29, 26126), (33, 26114), (34, 26102), (35, 26093), (38, 26072), (39, 26060),

Gene: Airmid_30 Start: 23936, Stop: 23637, Start Num: 6
Candidate Starts for Airmid_30:
(Start: 6 @23936 has 48 MA's), (10, 23849), (18, 23786), (19, 23765), (26, 23726), (28, 23723), (29, 23717), (33, 23705), (34, 23693), (35, 23684),

Gene: Andies_32 Start: 26902, Stop: 26561, Start Num: 6
Candidate Starts for Andies_32:
(Start: 6 @26902 has 48 MA's), (14, 26758), (22, 26692), (23, 26689), (27, 26659), (29, 26644), (33, 26632), (34, 26620), (38, 26590), (39, 26578),

Gene: BabeRuth_37 Start: 28019, Stop: 27681, Start Num: 6
Candidate Starts for BabeRuth_37:
(Start: 6 @28019 has 48 MA's), (20, 27818), (25, 27803), (32, 27755), (34, 27740), (39, 27698),

Gene: Benedict_30 Start: 23939, Stop: 23640, Start Num: 6
Candidate Starts for Benedict_30:
(Start: 6 @23939 has 48 MA's), (10, 23852), (18, 23789), (19, 23768), (26, 23729), (28, 23726), (29, 23720), (33, 23708), (34, 23696), (35, 23687),

Gene: Bosection6_33 Start: 26405, Stop: 26064, Start Num: 6
Candidate Starts for Bosection6_33:
(Start: 6 @26405 has 48 MA's), (14, 26261), (22, 26195), (23, 26192), (29, 26147), (33, 26135), (34, 26123), (35, 26114), (38, 26093), (39, 26081),

Gene: Butters_36 Start: 28446, Stop: 28135, Start Num: 6
Candidate Starts for Butters_36:
(Start: 6 @28446 has 48 MA's), (17, 28296), (19, 28266), (24, 28248), (26, 28227), (28, 28224), (30, 28215), (32, 28209), (34, 28194), (38, 28164), (39, 28152),

Gene: Carcharodon_35 Start: 27713, Stop: 27372, Start Num: 6

Candidate Starts for Carcharodon_35:
(Start: 6 @27713 has 48 MA's), (14, 27569), (22, 27503), (23, 27500), (27, 27470), (29, 27455), (33, 27443), (34, 27431), (38, 27401), (39, 27389),

Gene: Charlie_33 Start: 26404, Stop: 26063, Start Num: 6
Candidate Starts for Charlie_33:
(Start: 6 @26404 has 48 MA's), (14, 26260), (22, 26194), (23, 26191), (29, 26146), (33, 26134), (34, 26122), (35, 26113), (38, 26092), (39, 26080),

Gene: Chewbacca_36 Start: 27713, Stop: 27372, Start Num: 6
Candidate Starts for Chewbacca_36:
(Start: 6 @27713 has 48 MA's), (14, 27569), (22, 27503), (23, 27500), (27, 27470), (29, 27455), (33, 27443), (34, 27431), (38, 27401), (39, 27389),

Gene: Duplicity_35 Start: 27722, Stop: 27381, Start Num: 6
Candidate Starts for Duplicity_35:
(Start: 6 @27722 has 48 MA's), (14, 27578), (22, 27512), (23, 27509), (27, 27479), (29, 27464), (33, 27452), (34, 27440), (38, 27410), (39, 27398),

Gene: ElTiger69_30 Start: 23937, Stop: 23638, Start Num: 6
Candidate Starts for ElTiger69_30:
(Start: 6 @23937 has 48 MA's), (10, 23850), (18, 23787), (19, 23766), (26, 23727), (28, 23724), (29, 23718), (33, 23706), (34, 23694), (35, 23685),

Gene: Fulbright_34 Start: 26802, Stop: 26461, Start Num: 6
Candidate Starts for Fulbright_34:
(Start: 6 @26802 has 48 MA's), (14, 26658), (22, 26592), (23, 26589), (27, 26559), (29, 26544), (33, 26532), (34, 26520), (38, 26490), (39, 26478),

Gene: Gex_35 Start: 27729, Stop: 27388, Start Num: 6
Candidate Starts for Gex_35:
(Start: 6 @27729 has 48 MA's), (14, 27585), (22, 27519), (23, 27516), (27, 27486), (29, 27471), (33, 27459), (34, 27447), (38, 27417), (39, 27405),

Gene: Hanako_36 Start: 28018, Stop: 27680, Start Num: 6
Candidate Starts for Hanako_36:
(Start: 6 @28018 has 48 MA's), (20, 27817), (25, 27802), (32, 27754), (34, 27739), (39, 27697),

Gene: Herbertwm_30 Start: 24275, Stop: 23961, Start Num: 4
Candidate Starts for Herbertwm_30:
(2, 24311), (Start: 4 @24275 has 1 MA's), (7, 24260), (15, 24113), (37, 23981),

Gene: Jabiru_30 Start: 23986, Stop: 23687, Start Num: 6
Candidate Starts for Jabiru_30:
(Start: 6 @23986 has 48 MA's), (10, 23899), (18, 23836), (19, 23815), (26, 23776), (28, 23773), (29, 23767), (33, 23755), (34, 23743), (35, 23734),

Gene: Jamie19_32 Start: 26783, Stop: 26442, Start Num: 6
Candidate Starts for Jamie19_32:
(Start: 6 @26783 has 48 MA's), (14, 26639), (22, 26573), (23, 26570), (27, 26540), (29, 26525), (33, 26513), (34, 26501), (38, 26471), (39, 26459),

Gene: Journey_33 Start: 26404, Stop: 26063, Start Num: 6

Candidate Starts for Journey_33:
(Start: 6 @26404 has 48 MA's), (14, 26260), (22, 26194), (23, 26191), (29, 26146), (33, 26134), (34, 26122), (35, 26113), (38, 26092), (39, 26080),

Gene: Kevin1_34 Start: 27625, Stop: 27314, Start Num: 6
Candidate Starts for Kevin1_34:
(Start: 6 @27625 has 48 MA's), (17, 27475), (19, 27445), (24, 27427), (26, 27406), (28, 27403), (30, 27394), (32, 27388), (34, 27373), (38, 27343), (39, 27331),

Gene: Magsby_35 Start: 27730, Stop: 27389, Start Num: 6
Candidate Starts for Magsby_35:
(Start: 6 @27730 has 48 MA's), (14, 27586), (22, 27520), (23, 27517), (27, 27487), (29, 27472), (33, 27460), (34, 27448), (38, 27418), (39, 27406),

Gene: Melville_37 Start: 27714, Stop: 27373, Start Num: 6
Candidate Starts for Melville_37:
(Start: 6 @27714 has 48 MA's), (14, 27570), (22, 27504), (23, 27501), (27, 27471), (29, 27456), (33, 27444), (34, 27432), (38, 27402), (39, 27390),

Gene: MichelleMyBell_33 Start: 26721, Stop: 26380, Start Num: 6
Candidate Starts for MichelleMyBell_33:
(Start: 6 @26721 has 48 MA's), (14, 26577), (22, 26511), (23, 26508), (27, 26478), (29, 26463), (33, 26451), (34, 26439), (38, 26409), (39, 26397),

Gene: MyraDee_32 Start: 25082, Stop: 24768, Start Num: 3
Candidate Starts for MyraDee_32:
(Start: 3 @25082 has 1 MA's), (5, 25076), (13, 24956), (16, 24914), (17, 24911), (34, 24806),

Gene: Naca_30 Start: 24473, Stop: 24174, Start Num: 6
Candidate Starts for Naca_30:
(Start: 6 @24473 has 48 MA's), (10, 24386), (18, 24323), (19, 24302), (26, 24263), (28, 24260), (29, 24254), (33, 24242), (34, 24230), (35, 24221),

Gene: Nenae_36 Start: 28021, Stop: 27683, Start Num: 6
Candidate Starts for Nenae_36:
(Start: 6 @28021 has 48 MA's), (20, 27820), (25, 27805), (32, 27757), (34, 27742), (39, 27700),

Gene: Panchino_31 Start: 28129, Stop: 27788, Start Num: 6
Candidate Starts for Panchino_31:
(Start: 6 @28129 has 48 MA's), (14, 27985), (22, 27919), (23, 27916), (27, 27886), (29, 27871), (33, 27859), (34, 27847), (38, 27817), (39, 27805),

Gene: Parmesanjohn_35 Start: 27733, Stop: 27392, Start Num: 6
Candidate Starts for Parmesanjohn_35:
(Start: 6 @27733 has 48 MA's), (14, 27589), (22, 27523), (23, 27520), (27, 27490), (29, 27475), (33, 27463), (34, 27451), (38, 27421), (39, 27409),

Gene: PhancyPhin_36 Start: 28015, Stop: 27677, Start Num: 6
Candidate Starts for PhancyPhin_36:
(Start: 6 @28015 has 48 MA's), (20, 27814), (25, 27799), (32, 27751), (34, 27736), (39, 27694),

Gene: Philonius_33 Start: 26395, Stop: 26054, Start Num: 6
Candidate Starts for Philonius_33:

(Start: 6 @26395 has 48 MA's), (14, 26251), (22, 26185), (23, 26182), (29, 26137), (33, 26125), (34, 26113), (35, 26104), (38, 26083), (39, 26071),

Gene: Phloss_33 Start: 27140, Stop: 26799, Start Num: 6
Candidate Starts for Phloss_33:
(Start: 6 @27140 has 48 MA's), (14, 26996), (22, 26930), (23, 26927), (27, 26897), (29, 26882), (33, 26870), (34, 26858), (38, 26828), (39, 26816),

Gene: Phrann_36 Start: 28799, Stop: 28461, Start Num: 6
Candidate Starts for Phrann_36:
(Start: 6 @28799 has 48 MA's), (20, 28598), (25, 28583), (32, 28535), (34, 28520), (39, 28478),

Gene: Pipsqueaks_35 Start: 27710, Stop: 27369, Start Num: 6
Candidate Starts for Pipsqueaks_35:
(Start: 6 @27710 has 48 MA's), (14, 27566), (22, 27500), (23, 27497), (27, 27467), (29, 27452), (33, 27440), (34, 27428), (38, 27398), (39, 27386),

Gene: Purgamenstris_36 Start: 28019, Stop: 27681, Start Num: 6
Candidate Starts for Purgamenstris_36:
(Start: 6 @28019 has 48 MA's), (20, 27818), (25, 27803), (32, 27755), (34, 27740), (39, 27698),

Gene: Raymond7_30 Start: 27839, Stop: 27504, Start Num: 6
Candidate Starts for Raymond7_30:
(1, 27935), (Start: 6 @27839 has 48 MA's), (11, 27737), (12, 27722), (14, 27695), (32, 27578), (34, 27563), (38, 27533), (39, 27521),

Gene: Redi_36 Start: 28018, Stop: 27680, Start Num: 6
Candidate Starts for Redi_36:
(Start: 6 @28018 has 48 MA's), (20, 27817), (25, 27802), (32, 27754), (34, 27739), (39, 27697),

Gene: Rubeelu_36 Start: 28446, Stop: 28135, Start Num: 6
Candidate Starts for Rubeelu_36:
(Start: 6 @28446 has 48 MA's), (17, 28296), (19, 28266), (24, 28248), (26, 28227), (28, 28224), (30, 28215), (32, 28209), (34, 28194), (38, 28164), (39, 28152),

Gene: Schnauzer_35 Start: 27733, Stop: 27392, Start Num: 6
Candidate Starts for Schnauzer_35:
(Start: 6 @27733 has 48 MA's), (14, 27589), (22, 27523), (23, 27520), (27, 27490), (29, 27475), (33, 27463), (34, 27451), (38, 27421), (39, 27409),

Gene: Scorpia_31 Start: 23910, Stop: 23611, Start Num: 6
Candidate Starts for Scorpia_31:
(Start: 6 @23910 has 48 MA's), (10, 23823), (18, 23760), (19, 23739), (26, 23700), (28, 23697), (29, 23691), (33, 23679), (34, 23667), (35, 23658),

Gene: ShrimpFriedEgg_36 Start: 28018, Stop: 27680, Start Num: 6
Candidate Starts for ShrimpFriedEgg_36:
(Start: 6 @28018 has 48 MA's), (20, 27817), (25, 27802), (32, 27754), (34, 27739), (39, 27697),

Gene: Shweta_32 Start: 26913, Stop: 26572, Start Num: 6
Candidate Starts for Shweta_32:
(Start: 6 @26913 has 48 MA's), (14, 26769), (22, 26703), (23, 26700), (27, 26670), (29, 26655), (33, 26643), (34, 26631), (38, 26601), (39, 26589),

Gene: Silvafighter_36 Start: 27706, Stop: 27365, Start Num: 6
Candidate Starts for Silvafighter_36:
(Start: 6 @27706 has 48 MA's), (14, 27562), (22, 27496), (23, 27493), (27, 27463), (29, 27448), (33, 27436), (34, 27424), (38, 27394), (39, 27382),

Gene: Silvy_33 Start: 26384, Stop: 26043, Start Num: 6
Candidate Starts for Silvy_33:
(Start: 6 @26384 has 48 MA's), (14, 26240), (22, 26174), (23, 26171), (29, 26126), (33, 26114), (34, 26102), (35, 26093), (38, 26072), (39, 26060),

Gene: SkinnyPete_30 Start: 25444, Stop: 25103, Start Num: 6
Candidate Starts for SkinnyPete_30:
(Start: 6 @25444 has 48 MA's), (14, 25300), (22, 25234), (23, 25231), (29, 25186), (33, 25174), (34, 25162), (35, 25153), (38, 25132), (39, 25120),

Gene: Smurph_35 Start: 27733, Stop: 27392, Start Num: 6
Candidate Starts for Smurph_35:
(Start: 6 @27733 has 48 MA's), (14, 27589), (22, 27523), (23, 27520), (27, 27490), (29, 27475), (33, 27463), (34, 27451), (38, 27421), (39, 27409),

Gene: Snekmaggedon_32 Start: 26783, Stop: 26442, Start Num: 6
Candidate Starts for Snekmaggedon_32:
(Start: 6 @26783 has 48 MA's), (14, 26639), (22, 26573), (23, 26570), (27, 26540), (29, 26525), (33, 26513), (34, 26501), (38, 26471), (39, 26459),

Gene: SpongeBob_32 Start: 26783, Stop: 26442, Start Num: 6
Candidate Starts for SpongeBob_32:
(Start: 6 @26783 has 48 MA's), (14, 26639), (22, 26573), (23, 26570), (27, 26540), (29, 26525), (33, 26513), (34, 26501), (38, 26471), (39, 26459),

Gene: Squirty_33 Start: 28243, Stop: 27905, Start Num: 6
Candidate Starts for Squirty_33:
(Start: 6 @28243 has 48 MA's), (25, 28027), (32, 27979), (34, 27964), (39, 27922),

Gene: Tapioca_36 Start: 27699, Stop: 27358, Start Num: 6
Candidate Starts for Tapioca_36:
(Start: 6 @27699 has 48 MA's), (14, 27555), (22, 27489), (23, 27486), (27, 27456), (29, 27441), (33, 27429), (34, 27417), (38, 27387), (39, 27375),

Gene: Xeno_32 Start: 26170, Stop: 25829, Start Num: 6
Candidate Starts for Xeno_32:
(Start: 6 @26170 has 48 MA's), (14, 26026), (22, 25960), (23, 25957), (27, 25927), (29, 25912), (33, 25900), (34, 25888), (38, 25858), (39, 25846),

Gene: Xerxes_35 Start: 27730, Stop: 27389, Start Num: 6
Candidate Starts for Xerxes_35:
(Start: 6 @27730 has 48 MA's), (14, 27586), (22, 27520), (23, 27517), (27, 27487), (29, 27472), (33, 27460), (34, 27448), (38, 27418), (39, 27406),