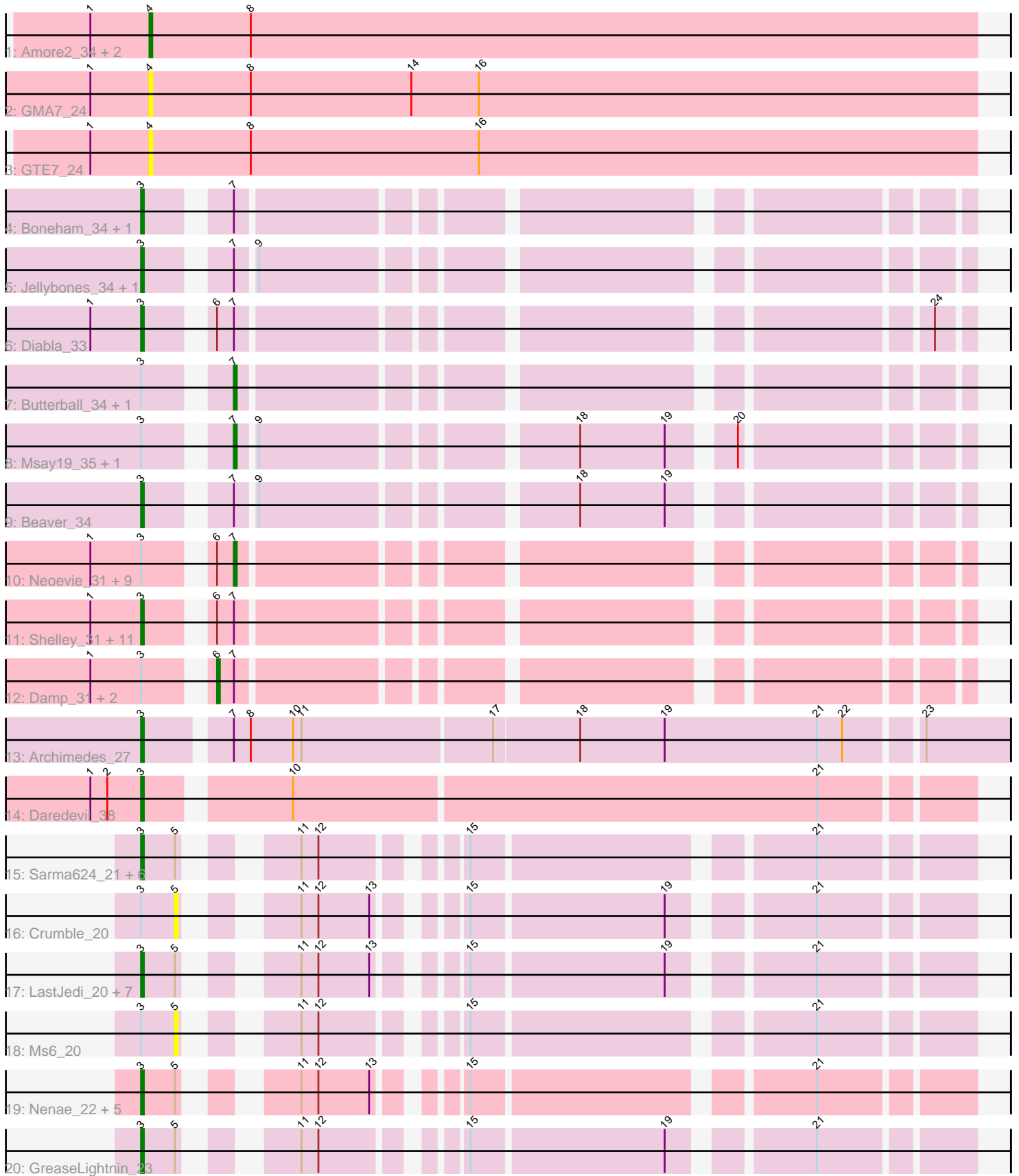


Pham 161855



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 161855 Report

This analysis was run 04/28/24 on database version 559.

Pham number 161855 has 66 members, 10 are drafts.

Phages represented in each track:

- Track 1 : Amore2_34, Austin_34, HayZem_33
- Track 2 : GMA7_24
- Track 3 : GTE7_24
- Track 4 : Boneham_34, BirksAndSocks_34
- Track 5 : Jellybones_34, John316_34
- Track 6 : Diabla_33
- Track 7 : Butterball_34, FelixAlejandro_35
- Track 8 : Msay19_35, Poland_37
- Track 9 : Beaver_34
- Track 10 : Neoevie_31, Guillaume_31, Harambe_31, Jormungandr_31, Lahirium_31, Anamika_31, Woes_31, Hail2Pitt_31, Nimi13_31, Charianelly_31
- Track 11 : Shelley_31, Teal_31, Sticker17_31, GalacticEye_31, Hello_31, Berries_32, Bianmat_31, MrWormie_31, Jams_31, Lidong_31, Minos_32, Luker_32
- Track 12 : Damp_31, Kaseim_32, Newt_32
- Track 13 : Archimedes_27
- Track 14 : Daredevil_38
- Track 15 : Sarma624_21, SpongeBob_22, Snekmaggedon_22, BigPhil_21, Cerasum_21, Jamie19_22, Velveteen_21
- Track 16 : Crumble_20
- Track 17 : LastJedi_20, Koella_20, Fulbright_22, Pippy_20, Phloss_22, Brocalys_21, Squirty_21, Clifton_20
- Track 18 : Ms6_20
- Track 19 : Nенаe_22, ShrimpFriedEgg_22, Redi_22, PhancyPhin_22, Purgamenstris_22, BabeRuth_22
- Track 20 : GreaseLightnin_23

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

The start number called the most often in the published annotations is 3, it was called in 41 of the 56 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Archimedes_27, BabeRuth_22, Beaver_34, Berries_32, Bianmat_31, BigPhil_21, BirksAndSocks_34, Boneham_34, Brocalys_21, Cerasum_21, Clifton_20,

Daredevil_38, Diabla_33, Fulbright_22, GalacticEye_31, GreaseLightnin_23, Hello_31, Jamie19_22, Jams_31, Jellybones_34, John316_34, Koella_20, LastJedi_20, Lidong_31, Luker_32, Minos_32, MrWormie_31, Nenae_22, PhancyPhin_22, Phloss_22, Pippy_20, Purgamenstris_22, Redi_22, Sarma624_21, Shelley_31, ShrimpFriedEgg_22, Snekmaggedon_22, SpongeBob_22, Squirty_21, Sticker17_31, Teal_31, Velveteen_21,

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

- Anamika_31, Butterball_34, Charianelly_31, Crumble_20, Damp_31, FelixAlejandro_35, Guillaume_31, Hail2Pitt_31, Harambe_31, Jormungandr_31, Kaseim_32, Lahirium_31, Ms6_20, Msay19_35, Neoevie_31, Newt_32, Nimi13_31, Poland_37, Woes_31,

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

- Amore2_34, Austin_34, GMA7_24, GTE7_24, HayZem_33,

Summary by start number:

Start 3:

- Found in 61 of 66 (92.4%) of genes in pham
- Manual Annotations of this start: 41 of 56
- Called 68.9% of time when present
- Phage (with cluster) where this start called: Archimedes_27 (DA), BabeRuth_22 (N), Beaver_34 (CS2), Berries_32 (CS3), Bianmat_31 (CS3), BigPhil_21 (F1), BirksAndSocks_34 (CS2), Boneham_34 (CS2), Brocalys_21 (F1), Cerasum_21 (F1), Clifton_20 (F1), Daredevil_38 (DL), Diabla_33 (CS2), Fulbright_22 (N), GalacticEye_31 (CS3), GreaseLightnin_23 (P1), Hello_31 (CS3), Jamie19_22 (N), Jams_31 (CS3), Jellybones_34 (CS2), John316_34 (CS2), Koella_20 (F1), LastJedi_20 (F1), Lidong_31 (CS3), Luker_32 (CS3), Minos_32 (CS3), MrWormie_31 (CS3), Nenae_22 (N), PhancyPhin_22 (N), Phloss_22 (N), Pippy_20 (F1), Purgamenstris_22 (N), Redi_22 (N), Sarma624_21 (F1), Shelley_31 (CS3), ShrimpFriedEgg_22 (N), Snekmaggedon_22 (N), SpongeBob_22 (N), Squirty_21 (F3), Sticker17_31 (CS3), Teal_31 (CS3), Velveteen_21 (F1),

Start 4:

- Found in 5 of 66 (7.6%) of genes in pham
- Manual Annotations of this start: 2 of 56
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Amore2_34 (CS1), Austin_34 (CS1), GMA7_24 (CS1), GTE7_24 (CS1), HayZem_33 (CS1),

Start 5:

- Found in 24 of 66 (36.4%) of genes in pham
- No Manual Annotations of this start.
- Called 8.3% of time when present
- Phage (with cluster) where this start called: Crumble_20 (F1), Ms6_20 (F1),

Start 6:

- Found in 26 of 66 (39.4%) of genes in pham
- Manual Annotations of this start: 1 of 56
- Called 11.5% of time when present
- Phage (with cluster) where this start called: Damp_31 (CS3), Kaseim_32 (CS3), Newt_32 (CS3),

Start 7:

- Found in 36 of 66 (54.5%) of genes in pham
- Manual Annotations of this start: 12 of 56
- Called 38.9% of time when present
- Phage (with cluster) where this start called: Anamika_31 (CS3), Butterball_34 (CS2), Charianelly_31 (CS3), FelixAlejandro_35 (CS2), Guillaume_31 (CS3), Hail2Pitt_31 (CS3), Harambe_31 (CS3), Jormungandr_31 (CS3), Lahirium_31 (CS3), Msay19_35 (CS2), Neoevie_31 (CS3), Nimi13_31 (CS3), Poland_37 (CS2), Woes_31 (CS3),

Summary by clusters:

There are 9 clusters represented in this pham: F1, DL, F3, N, P1, DA, CS1, CS3, CS2,

Info for manual annotations of cluster CS1:

- Start number 4 was manually annotated 2 times for cluster CS1.

Info for manual annotations of cluster CS2:

- Start number 3 was manually annotated 6 times for cluster CS2.
- Start number 7 was manually annotated 3 times for cluster CS2.

Info for manual annotations of cluster CS3:

- Start number 3 was manually annotated 11 times for cluster CS3.
- Start number 6 was manually annotated 1 time for cluster CS3.
- Start number 7 was manually annotated 9 times for cluster CS3.

Info for manual annotations of cluster DA:

- Start number 3 was manually annotated 1 time for cluster DA.

Info for manual annotations of cluster DL:

- Start number 3 was manually annotated 1 time for cluster DL.

Info for manual annotations of cluster F1:

- Start number 3 was manually annotated 9 times for cluster F1.

Info for manual annotations of cluster F3:

- Start number 3 was manually annotated 1 time for cluster F3.

Info for manual annotations of cluster N:

- Start number 3 was manually annotated 11 times for cluster N.

Info for manual annotations of cluster P1:

- Start number 3 was manually annotated 1 time for cluster P1.

Gene Information:

Gene: Amore2_34 Start: 37457, Stop: 37750, Start Num: 4

Candidate Starts for Amore2_34:

(1, 37436), (Start: 4 @37457 has 2 MA's), (8, 37493),

Gene: Anamika_31 Start: 39309, Stop: 39533, Start Num: 7
Candidate Starts for Anamika_31:
(1, 39267), (Start: 3 @39285 has 41 MA's), (Start: 6 @39303 has 1 MA's), (Start: 7 @39309 has 12 MA's),

Gene: Archimedes_27 Start: 24365, Stop: 24658, Start Num: 3
Candidate Starts for Archimedes_27:
(Start: 3 @24365 has 41 MA's), (Start: 7 @24392 has 12 MA's), (8, 24398), (10, 24413), (11, 24416), (17, 24482), (18, 24512), (19, 24542), (21, 24596), (22, 24605), (23, 24629),

Gene: Austin_34 Start: 37457, Stop: 37750, Start Num: 4
Candidate Starts for Austin_34:
(1, 37436), (Start: 4 @37457 has 2 MA's), (8, 37493),

Gene: BabeRuth_22 Start: 21028, Stop: 21267, Start Num: 3
Candidate Starts for BabeRuth_22:
(Start: 3 @21028 has 41 MA's), (5, 21040), (11, 21064), (12, 21070), (13, 21088), (15, 21109), (21, 21217),

Gene: Beaver_34 Start: 38765, Stop: 39013, Start Num: 3
Candidate Starts for Beaver_34:
(Start: 3 @38765 has 41 MA's), (Start: 7 @38789 has 12 MA's), (9, 38795), (18, 38894), (19, 38924),

Gene: Berries_32 Start: 39255, Stop: 39503, Start Num: 3
Candidate Starts for Berries_32:
(1, 39237), (Start: 3 @39255 has 41 MA's), (Start: 6 @39273 has 1 MA's), (Start: 7 @39279 has 12 MA's),

Gene: Bianmat_31 Start: 39295, Stop: 39543, Start Num: 3
Candidate Starts for Bianmat_31:
(1, 39277), (Start: 3 @39295 has 41 MA's), (Start: 6 @39313 has 1 MA's), (Start: 7 @39319 has 12 MA's),

Gene: BigPhil_21 Start: 21241, Stop: 21480, Start Num: 3
Candidate Starts for BigPhil_21:
(Start: 3 @21241 has 41 MA's), (5, 21253), (11, 21277), (12, 21283), (15, 21322), (21, 21430),

Gene: BirksAndSocks_34 Start: 38739, Stop: 38987, Start Num: 3
Candidate Starts for BirksAndSocks_34:
(Start: 3 @38739 has 41 MA's), (Start: 7 @38763 has 12 MA's),

Gene: Boneham_34 Start: 38738, Stop: 38986, Start Num: 3
Candidate Starts for Boneham_34:
(Start: 3 @38738 has 41 MA's), (Start: 7 @38762 has 12 MA's),

Gene: Brocalys_21 Start: 21055, Stop: 21294, Start Num: 3
Candidate Starts for Brocalys_21:
(Start: 3 @21055 has 41 MA's), (5, 21067), (11, 21091), (12, 21097), (13, 21115), (15, 21136), (19, 21202), (21, 21244),

Gene: Butterball_34 Start: 38762, Stop: 38986, Start Num: 7
Candidate Starts for Butterball_34:

(Start: 3 @38738 has 41 MA's), (Start: 7 @38762 has 12 MA's),

Gene: Cerasum_21 Start: 21241, Stop: 21480, Start Num: 3

Candidate Starts for Cerasum_21:

(Start: 3 @21241 has 41 MA's), (5, 21253), (11, 21277), (12, 21283), (15, 21322), (21, 21430),

Gene: Charianelly_31 Start: 39029, Stop: 39253, Start Num: 7

Candidate Starts for Charianelly_31:

(1, 38987), (Start: 3 @39005 has 41 MA's), (Start: 6 @39023 has 1 MA's), (Start: 7 @39029 has 12 MA's),

Gene: Clifton_20 Start: 21368, Stop: 21607, Start Num: 3

Candidate Starts for Clifton_20:

(Start: 3 @21368 has 41 MA's), (5, 21380), (11, 21404), (12, 21410), (13, 21428), (15, 21449), (19, 21515), (21, 21557),

Gene: Crumble_20 Start: 21427, Stop: 21654, Start Num: 5

Candidate Starts for Crumble_20:

(Start: 3 @21415 has 41 MA's), (5, 21427), (11, 21451), (12, 21457), (13, 21475), (15, 21496), (19, 21562), (21, 21604),

Gene: Damp_31 Start: 38187, Stop: 38417, Start Num: 6

Candidate Starts for Damp_31:

(1, 38151), (Start: 3 @38169 has 41 MA's), (Start: 6 @38187 has 1 MA's), (Start: 7 @38193 has 12 MA's),

Gene: Daredevil_38 Start: 35667, Stop: 35945, Start Num: 3

Candidate Starts for Daredevil_38:

(1, 35649), (2, 35655), (Start: 3 @35667 has 41 MA's), (10, 35712), (21, 35895),

Gene: Diabla_33 Start: 38595, Stop: 38843, Start Num: 3

Candidate Starts for Diabla_33:

(1, 38577), (Start: 3 @38595 has 41 MA's), (Start: 6 @38613 has 1 MA's), (Start: 7 @38619 has 12 MA's), (24, 38832),

Gene: FelixAlejandro_35 Start: 38960, Stop: 39184, Start Num: 7

Candidate Starts for FelixAlejandro_35:

(Start: 3 @38936 has 41 MA's), (Start: 7 @38960 has 12 MA's),

Gene: Fulbright_22 Start: 21354, Stop: 21593, Start Num: 3

Candidate Starts for Fulbright_22:

(Start: 3 @21354 has 41 MA's), (5, 21366), (11, 21390), (12, 21396), (13, 21414), (15, 21435), (19, 21501), (21, 21543),

Gene: GMA7_24 Start: 31671, Stop: 31964, Start Num: 4

Candidate Starts for GMA7_24:

(1, 31650), (Start: 4 @31671 has 2 MA's), (8, 31707), (14, 31764), (16, 31788),

Gene: GTE7_24 Start: 31702, Stop: 31995, Start Num: 4

Candidate Starts for GTE7_24:

(1, 31681), (Start: 4 @31702 has 2 MA's), (8, 31738), (16, 31819),

Gene: GalacticEye_31 Start: 38967, Stop: 39215, Start Num: 3

Candidate Starts for GalacticEye_31:
(1, 38949), (Start: 3 @38967 has 41 MA's), (Start: 6 @38985 has 1 MA's), (Start: 7 @38991 has 12 MA's),

Gene: GreaseLightnin_23 Start: 22506, Stop: 22745, Start Num: 3
Candidate Starts for GreaseLightnin_23:
(Start: 3 @22506 has 41 MA's), (5, 22518), (11, 22542), (12, 22548), (15, 22587), (19, 22653), (21, 22695),

Gene: Guillaume_31 Start: 39041, Stop: 39265, Start Num: 7
Candidate Starts for Guillaume_31:
(1, 38999), (Start: 3 @39017 has 41 MA's), (Start: 6 @39035 has 1 MA's), (Start: 7 @39041 has 12 MA's),

Gene: Hail2Pitt_31 Start: 39518, Stop: 39742, Start Num: 7
Candidate Starts for Hail2Pitt_31:
(1, 39476), (Start: 3 @39494 has 41 MA's), (Start: 6 @39512 has 1 MA's), (Start: 7 @39518 has 12 MA's),

Gene: Harambe_31 Start: 39308, Stop: 39532, Start Num: 7
Candidate Starts for Harambe_31:
(1, 39266), (Start: 3 @39284 has 41 MA's), (Start: 6 @39302 has 1 MA's), (Start: 7 @39308 has 12 MA's),

Gene: HayZem_33 Start: 37454, Stop: 37747, Start Num: 4
Candidate Starts for HayZem_33:
(1, 37433), (Start: 4 @37454 has 2 MA's), (8, 37490),

Gene: Hello_31 Start: 39246, Stop: 39494, Start Num: 3
Candidate Starts for Hello_31:
(1, 39228), (Start: 3 @39246 has 41 MA's), (Start: 6 @39264 has 1 MA's), (Start: 7 @39270 has 12 MA's),

Gene: Jamie19_22 Start: 21028, Stop: 21267, Start Num: 3
Candidate Starts for Jamie19_22:
(Start: 3 @21028 has 41 MA's), (5, 21040), (11, 21064), (12, 21070), (15, 21109), (21, 21217),

Gene: Jams_31 Start: 38455, Stop: 38703, Start Num: 3
Candidate Starts for Jams_31:
(1, 38437), (Start: 3 @38455 has 41 MA's), (Start: 6 @38473 has 1 MA's), (Start: 7 @38479 has 12 MA's),

Gene: Jellybones_34 Start: 38797, Stop: 39045, Start Num: 3
Candidate Starts for Jellybones_34:
(Start: 3 @38797 has 41 MA's), (Start: 7 @38821 has 12 MA's), (9, 38827),

Gene: John316_34 Start: 38750, Stop: 38998, Start Num: 3
Candidate Starts for John316_34:
(Start: 3 @38750 has 41 MA's), (Start: 7 @38774 has 12 MA's), (9, 38780),

Gene: Jormungandr_31 Start: 39023, Stop: 39247, Start Num: 7
Candidate Starts for Jormungandr_31:

(1, 38981), (Start: 3 @38999 has 41 MA's), (Start: 6 @39017 has 1 MA's), (Start: 7 @39023 has 12 MA's),

Gene: Kaseim_32 Start: 38458, Stop: 38688, Start Num: 6

Candidate Starts for Kaseim_32:

(1, 38422), (Start: 3 @38440 has 41 MA's), (Start: 6 @38458 has 1 MA's), (Start: 7 @38464 has 12 MA's),

Gene: Koella_20 Start: 21380, Stop: 21619, Start Num: 3

Candidate Starts for Koella_20:

(Start: 3 @21380 has 41 MA's), (5, 21392), (11, 21416), (12, 21422), (13, 21440), (15, 21461), (19, 21527), (21, 21569),

Gene: Lahirium_31 Start: 39545, Stop: 39769, Start Num: 7

Candidate Starts for Lahirium_31:

(1, 39503), (Start: 3 @39521 has 41 MA's), (Start: 6 @39539 has 1 MA's), (Start: 7 @39545 has 12 MA's),

Gene: LastJedi_20 Start: 21411, Stop: 21650, Start Num: 3

Candidate Starts for LastJedi_20:

(Start: 3 @21411 has 41 MA's), (5, 21423), (11, 21447), (12, 21453), (13, 21471), (15, 21492), (19, 21558), (21, 21600),

Gene: Lidong_31 Start: 39255, Stop: 39503, Start Num: 3

Candidate Starts for Lidong_31:

(1, 39237), (Start: 3 @39255 has 41 MA's), (Start: 6 @39273 has 1 MA's), (Start: 7 @39279 has 12 MA's),

Gene: Luker_32 Start: 39474, Stop: 39722, Start Num: 3

Candidate Starts for Luker_32:

(1, 39456), (Start: 3 @39474 has 41 MA's), (Start: 6 @39492 has 1 MA's), (Start: 7 @39498 has 12 MA's),

Gene: Minos_32 Start: 38997, Stop: 39245, Start Num: 3

Candidate Starts for Minos_32:

(1, 38979), (Start: 3 @38997 has 41 MA's), (Start: 6 @39015 has 1 MA's), (Start: 7 @39021 has 12 MA's),

Gene: MrWormie_31 Start: 38158, Stop: 38406, Start Num: 3

Candidate Starts for MrWormie_31:

(1, 38140), (Start: 3 @38158 has 41 MA's), (Start: 6 @38176 has 1 MA's), (Start: 7 @38182 has 12 MA's),

Gene: Ms6_20 Start: 20893, Stop: 21120, Start Num: 5

Candidate Starts for Ms6_20:

(Start: 3 @20881 has 41 MA's), (5, 20893), (11, 20917), (12, 20923), (15, 20962), (21, 21070),

Gene: Msay19_35 Start: 38955, Stop: 39179, Start Num: 7

Candidate Starts for Msay19_35:

(Start: 3 @38931 has 41 MA's), (Start: 7 @38955 has 12 MA's), (9, 38961), (18, 39060), (19, 39090), (20, 39108),

Gene: Nenae_22 Start: 21028, Stop: 21267, Start Num: 3

Candidate Starts for Nенаe_22:

(Start: 3 @21028 has 41 MA's), (5, 21040), (11, 21064), (12, 21070), (13, 21088), (15, 21109), (21, 21217),

Gene: Neoevie_31 Start: 39285, Stop: 39509, Start Num: 7

Candidate Starts for Neoevie_31:

(1, 39243), (Start: 3 @39261 has 41 MA's), (Start: 6 @39279 has 1 MA's), (Start: 7 @39285 has 12 MA's),

Gene: Newt_32 Start: 39506, Stop: 39736, Start Num: 6

Candidate Starts for Newt_32:

(1, 39470), (Start: 3 @39488 has 41 MA's), (Start: 6 @39506 has 1 MA's), (Start: 7 @39512 has 12 MA's),

Gene: Nimi13_31 Start: 39030, Stop: 39254, Start Num: 7

Candidate Starts for Nimi13_31:

(1, 38988), (Start: 3 @39006 has 41 MA's), (Start: 6 @39024 has 1 MA's), (Start: 7 @39030 has 12 MA's),

Gene: PhancyPhin_22 Start: 21025, Stop: 21264, Start Num: 3

Candidate Starts for PhancyPhin_22:

(Start: 3 @21025 has 41 MA's), (5, 21037), (11, 21061), (12, 21067), (13, 21085), (15, 21106), (21, 21214),

Gene: Phloss_22 Start: 21357, Stop: 21596, Start Num: 3

Candidate Starts for Phloss_22:

(Start: 3 @21357 has 41 MA's), (5, 21369), (11, 21393), (12, 21399), (13, 21417), (15, 21438), (19, 21504), (21, 21546),

Gene: Pippy_20 Start: 21407, Stop: 21646, Start Num: 3

Candidate Starts for Pippy_20:

(Start: 3 @21407 has 41 MA's), (5, 21419), (11, 21443), (12, 21449), (13, 21467), (15, 21488), (19, 21554), (21, 21596),

Gene: Poland_37 Start: 38934, Stop: 39158, Start Num: 7

Candidate Starts for Poland_37:

(Start: 3 @38910 has 41 MA's), (Start: 7 @38934 has 12 MA's), (9, 38940), (18, 39039), (19, 39069), (20, 39087),

Gene: Purgamenstris_22 Start: 21028, Stop: 21267, Start Num: 3

Candidate Starts for Purgamenstris_22:

(Start: 3 @21028 has 41 MA's), (5, 21040), (11, 21064), (12, 21070), (13, 21088), (15, 21109), (21, 21217),

Gene: Redi_22 Start: 21028, Stop: 21267, Start Num: 3

Candidate Starts for Redi_22:

(Start: 3 @21028 has 41 MA's), (5, 21040), (11, 21064), (12, 21070), (13, 21088), (15, 21109), (21, 21217),

Gene: Sarma624_21 Start: 21241, Stop: 21480, Start Num: 3

Candidate Starts for Sarma624_21:

(Start: 3 @21241 has 41 MA's), (5, 21253), (11, 21277), (12, 21283), (15, 21322), (21, 21430),

Gene: Shelley_31 Start: 38482, Stop: 38730, Start Num: 3

Candidate Starts for Shelley_31:

(1, 38464), (Start: 3 @38482 has 41 MA's), (Start: 6 @38500 has 1 MA's), (Start: 7 @38506 has 12 MA's),

Gene: ShrimpFriedEgg_22 Start: 21028, Stop: 21267, Start Num: 3

Candidate Starts for ShrimpFriedEgg_22:

(Start: 3 @21028 has 41 MA's), (5, 21040), (11, 21064), (12, 21070), (13, 21088), (15, 21109), (21, 21217),

Gene: Snekmaggedon_22 Start: 21028, Stop: 21267, Start Num: 3

Candidate Starts for Snekmaggedon_22:

(Start: 3 @21028 has 41 MA's), (5, 21040), (11, 21064), (12, 21070), (15, 21109), (21, 21217),

Gene: SpongeBob_22 Start: 21028, Stop: 21267, Start Num: 3

Candidate Starts for SpongeBob_22:

(Start: 3 @21028 has 41 MA's), (5, 21040), (11, 21064), (12, 21070), (15, 21109), (21, 21217),

Gene: Squirty_21 Start: 21076, Stop: 21315, Start Num: 3

Candidate Starts for Squirty_21:

(Start: 3 @21076 has 41 MA's), (5, 21088), (11, 21112), (12, 21118), (13, 21136), (15, 21157), (19, 21223), (21, 21265),

Gene: Sticker17_31 Start: 38997, Stop: 39245, Start Num: 3

Candidate Starts for Sticker17_31:

(1, 38979), (Start: 3 @38997 has 41 MA's), (Start: 6 @39015 has 1 MA's), (Start: 7 @39021 has 12 MA's),

Gene: Teal_31 Start: 39465, Stop: 39713, Start Num: 3

Candidate Starts for Teal_31:

(1, 39447), (Start: 3 @39465 has 41 MA's), (Start: 6 @39483 has 1 MA's), (Start: 7 @39489 has 12 MA's),

Gene: Velveteen_21 Start: 21241, Stop: 21480, Start Num: 3

Candidate Starts for Velveteen_21:

(Start: 3 @21241 has 41 MA's), (5, 21253), (11, 21277), (12, 21283), (15, 21322), (21, 21430),

Gene: Woes_31 Start: 39540, Stop: 39764, Start Num: 7

Candidate Starts for Woes_31:

(1, 39498), (Start: 3 @39516 has 41 MA's), (Start: 6 @39534 has 1 MA's), (Start: 7 @39540 has 12 MA's),