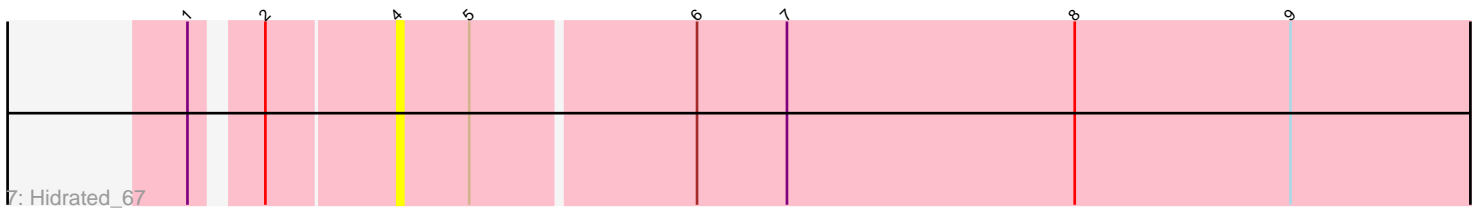
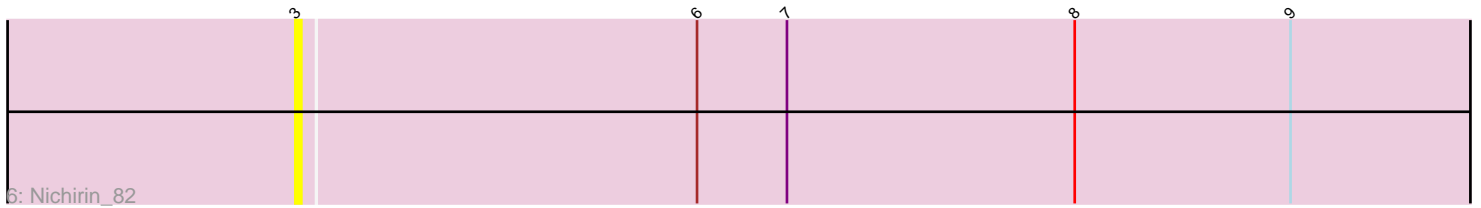
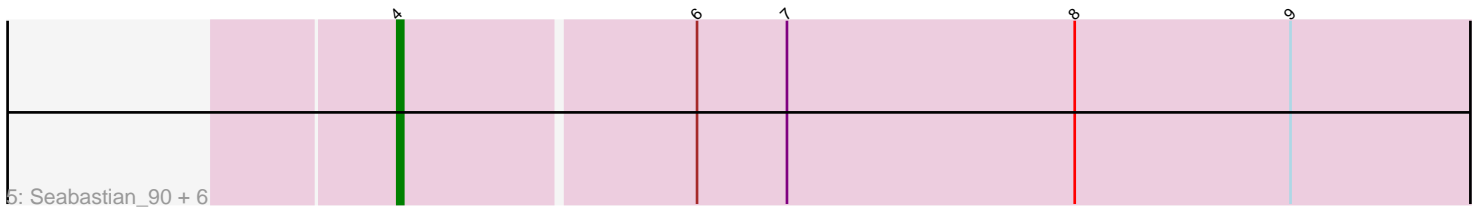
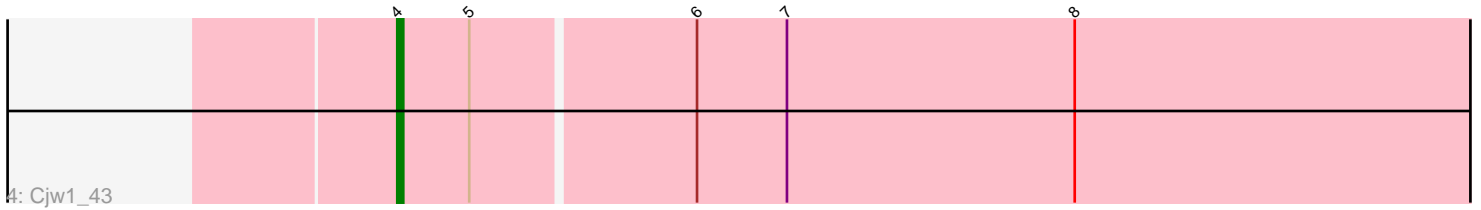
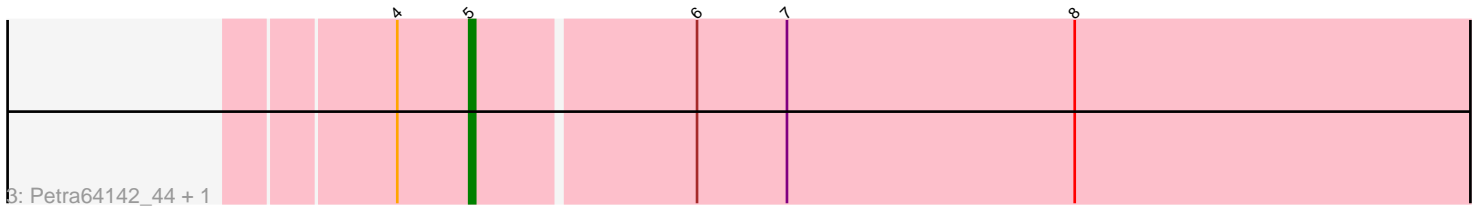
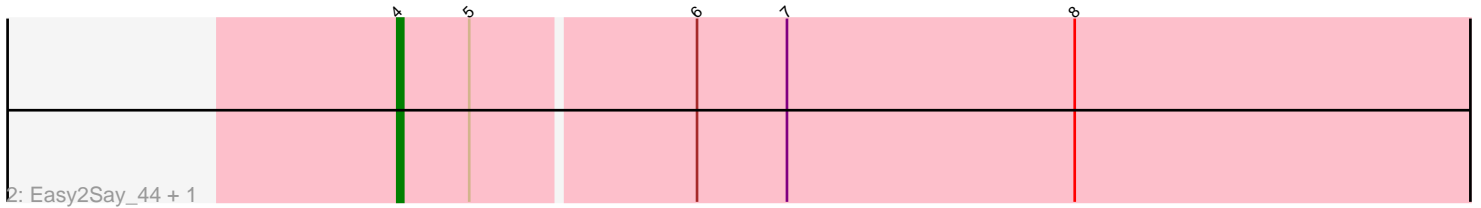
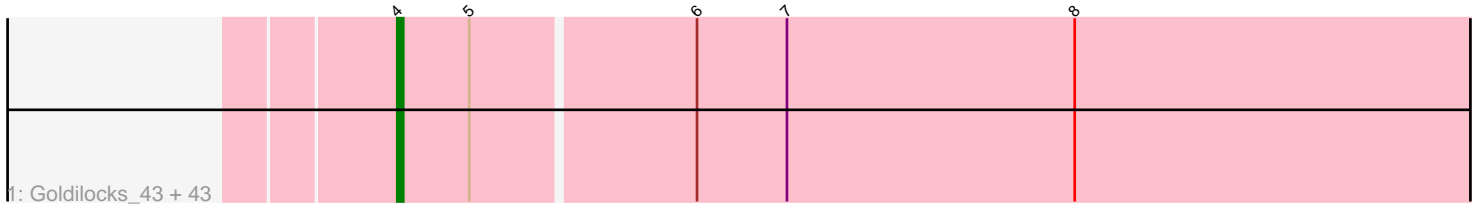


Pham 308672



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 308672 Report

This analysis was run 06/27/26 on database version 652.

Pham number 308672 has 58 members, 6 are drafts.

Phages represented in each track:

- Track 1 : Goldilocks_43, GoldenSpark_44, Command613_43, ChosenOne_43, Rakim_43, Moldemort_44, AmericanBeauty_45, Phaux_41, Bask21_42, Icee_41, Murica_41, Sotrice96_42, Murphy_43, Gage_44, NoSleep_43, Liveloughbron_43, Thimble_43, Cactus_43, Stank_45, Kimchi_44, StolenFromERC_44, Asriel_41, xkcd_43, HufflyPuff_41, Adnama_45, Barbarian_41, PhatBacter_42, Stark_43, Gemini_45, RiverMonster_42, Argent26_44, Hoonter_44, Policronamos_42, Lilac_44, Greep_43, Elite2014_42, FireRed_42, GooberAzure_44, Thresher_44, TBrady12_44, Palpatine_42, Maxxinista_43, Lilpickle_42, BugsBunny_40
- Track 2 : Easy2Say_44, Dumbo_43
- Track 3 : Petra64142_44, Nimrod_42
- Track 4 : Cjw1_43
- Track 5 : Sebastian_90, Llama_89, Ochi17_88, Jinglebell_89, Bobby_69, OfUltron_90, Modragons_87
- Track 6 : Nichirin_82
- Track 7 : Hidrated_67

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 51 of the 52 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Adnama_45, AmericanBeauty_45, Argent26_44, Asriel_41, Barbarian_41, Bask21_42, Bobby_69, BugsBunny_40, Cactus_43, ChosenOne_43, Cjw1_43, Command613_43, Dumbo_43, Easy2Say_44, Elite2014_42, FireRed_42, Gage_44, Gemini_45, GoldenSpark_44, Goldilocks_43, GooberAzure_44, Greep_43, Hidrated_67, Hoonter_44, HufflyPuff_41, Icee_41, Jinglebell_89, Kimchi_44, Lilac_44, Lilpickle_42, Liveloughbron_43, Llama_89, Maxxinista_43, Modragons_87, Moldemort_44, Murica_41, Murphy_43, NoSleep_43, Ochi17_88, OfUltron_90, Palpatine_42, PhatBacter_42, Phaux_41, Policronamos_42, Rakim_43, RiverMonster_42, Sebastian_90, Sotrice96_42, Stank_45, Stark_43, StolenFromERC_44, TBrady12_44, Thimble_43, Thresher_44, xkcd_43,

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

- Nimrod_42, Petra64142_44,

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

- Nichirin_82,

Summary by start number:

Start 3:

- Found in 1 of 58 (1.7%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Nichirin_82 (F1),

Start 4:

- Found in 57 of 58 (98.3%) of genes in pham
- Manual Annotations of this start: 51 of 52
- Called 96.5% of time when present
- Phage (with cluster) where this start called: Adnama_45 (E), AmericanBeauty_45 (E), Argent26_44 (E), Asriel_41 (E), Barbarian_41 (E), Bask21_42 (E), Bobby_69 (J), BugsBunny_40 (E), Cactus_43 (E), ChosenOne_43 (E), Cjw1_43 (E), Command613_43 (E), Dumbo_43 (E), Easy2Say_44 (E), Elite2014_42 (E), FireRed_42 (E), Gage_44 (E), Gemini_45 (E), GoldenSpark_44 (E), Goldilocks_43 (E), GooberAzure_44 (E), Greep_43 (E), Hidrated_67 (J), Hoonter_44 (E), HufflyPuff_41 (E), Icee_41 (E), Jinglebell_89 (F1), Kimchi_44 (E), Lilac_44 (E), Lilpickle_42 (E), Liveloughbron_43 (E), Llama_89 (F1), Maxxinista_43 (E), Modragons_87 (F1), Moldemort_44 (E), Murica_41 (E), Murphy_43 (E), NoSleep_43 (E), Ochi17_88 (F1), OfUltron_90 (F1), Palpatine_42 (E), PhatBacter_42 (E), Phaux_41 (E), Policronamos_42 (E), Rakim_43 (E), RiverMonster_42 (E), Seabastian_90 (F1), Sotrice96_42 (E), Stank_45 (E), Stark_43 (E), StolenFromERC_44 (E), TBrady12_44 (E), Thimble_43 (E), Thresher_44 (E), xkcd_43 (E),

Start 5:

- Found in 50 of 58 (86.2%) of genes in pham
- Manual Annotations of this start: 1 of 52
- Called 4.0% of time when present
- Phage (with cluster) where this start called: Nimrod_42 (E), Petra64142_44 (E),

Summary by clusters:

There are 3 clusters represented in this pham: F1, J, E,

Info for manual annotations of cluster E:

- Start number 4 was manually annotated 44 times for cluster E.
- Start number 5 was manually annotated 1 time for cluster E.

Info for manual annotations of cluster F1:

- Start number 4 was manually annotated 6 times for cluster F1.

Info for manual annotations of cluster J:

- Start number 4 was manually annotated 1 time for cluster J.

Gene Information:

Gene: Adnama_45 Start: 35606, Stop: 35424, Start Num: 4

Candidate Starts for Adnama_45:

(Start: 4 @35606 has 51 MA's), (Start: 5 @35594 has 1 MA's), (6, 35558), (7, 35543), (8, 35495),

Gene: AmericanBeauty_45 Start: 35451, Stop: 35269, Start Num: 4

Candidate Starts for AmericanBeauty_45:

(Start: 4 @35451 has 51 MA's), (Start: 5 @35439 has 1 MA's), (6, 35403), (7, 35388), (8, 35340),

Gene: Argent26_44 Start: 35089, Stop: 34907, Start Num: 4

Candidate Starts for Argent26_44:

(Start: 4 @35089 has 51 MA's), (Start: 5 @35077 has 1 MA's), (6, 35041), (7, 35026), (8, 34978),

Gene: Asriel_41 Start: 33943, Stop: 33761, Start Num: 4

Candidate Starts for Asriel_41:

(Start: 4 @33943 has 51 MA's), (Start: 5 @33931 has 1 MA's), (6, 33895), (7, 33880), (8, 33832),

Gene: Barbarian_41 Start: 33943, Stop: 33761, Start Num: 4

Candidate Starts for Barbarian_41:

(Start: 4 @33943 has 51 MA's), (Start: 5 @33931 has 1 MA's), (6, 33895), (7, 33880), (8, 33832),

Gene: Bask21_42 Start: 34277, Stop: 34095, Start Num: 4

Candidate Starts for Bask21_42:

(Start: 4 @34277 has 51 MA's), (Start: 5 @34265 has 1 MA's), (6, 34229), (7, 34214), (8, 34166),

Gene: Bobby_69 Start: 49314, Stop: 49132, Start Num: 4

Candidate Starts for Bobby_69:

(Start: 4 @49314 has 51 MA's), (6, 49266), (7, 49251), (8, 49203), (9, 49167),

Gene: BugsBunny_40 Start: 34671, Stop: 34489, Start Num: 4

Candidate Starts for BugsBunny_40:

(Start: 4 @34671 has 51 MA's), (Start: 5 @34659 has 1 MA's), (6, 34623), (7, 34608), (8, 34560),

Gene: Cactus_43 Start: 34310, Stop: 34128, Start Num: 4

Candidate Starts for Cactus_43:

(Start: 4 @34310 has 51 MA's), (Start: 5 @34298 has 1 MA's), (6, 34262), (7, 34247), (8, 34199),

Gene: ChosenOne_43 Start: 34404, Stop: 34222, Start Num: 4

Candidate Starts for ChosenOne_43:

(Start: 4 @34404 has 51 MA's), (Start: 5 @34392 has 1 MA's), (6, 34356), (7, 34341), (8, 34293),

Gene: Cjw1_43 Start: 36081, Stop: 35899, Start Num: 4

Candidate Starts for Cjw1_43:

(Start: 4 @36081 has 51 MA's), (Start: 5 @36069 has 1 MA's), (6, 36033), (7, 36018), (8, 35970),

Gene: Command613_43 Start: 35349, Stop: 35167, Start Num: 4

Candidate Starts for Command613_43:

(Start: 4 @35349 has 51 MA's), (Start: 5 @35337 has 1 MA's), (6, 35301), (7, 35286), (8, 35238),

Gene: Dumbo_43 Start: 34833, Stop: 34651, Start Num: 4

Candidate Starts for Dumbo_43:

(Start: 4 @34833 has 51 MA's), (Start: 5 @34821 has 1 MA's), (6, 34785), (7, 34770), (8, 34722),

Gene: Easy2Say_44 Start: 36377, Stop: 36195, Start Num: 4
Candidate Starts for Easy2Say_44:
(Start: 4 @36377 has 51 MA's), (Start: 5 @36365 has 1 MA's), (6, 36329), (7, 36314), (8, 36266),

Gene: Elite2014_42 Start: 34403, Stop: 34221, Start Num: 4
Candidate Starts for Elite2014_42:
(Start: 4 @34403 has 51 MA's), (Start: 5 @34391 has 1 MA's), (6, 34355), (7, 34340), (8, 34292),

Gene: FireRed_42 Start: 35110, Stop: 34928, Start Num: 4
Candidate Starts for FireRed_42:
(Start: 4 @35110 has 51 MA's), (Start: 5 @35098 has 1 MA's), (6, 35062), (7, 35047), (8, 34999),

Gene: Gage_44 Start: 35089, Stop: 34907, Start Num: 4
Candidate Starts for Gage_44:
(Start: 4 @35089 has 51 MA's), (Start: 5 @35077 has 1 MA's), (6, 35041), (7, 35026), (8, 34978),

Gene: Gemini_45 Start: 35606, Stop: 35424, Start Num: 4
Candidate Starts for Gemini_45:
(Start: 4 @35606 has 51 MA's), (Start: 5 @35594 has 1 MA's), (6, 35558), (7, 35543), (8, 35495),

Gene: GoldenSpark_44 Start: 35089, Stop: 34907, Start Num: 4
Candidate Starts for GoldenSpark_44:
(Start: 4 @35089 has 51 MA's), (Start: 5 @35077 has 1 MA's), (6, 35041), (7, 35026), (8, 34978),

Gene: Goldilocks_43 Start: 34591, Stop: 34409, Start Num: 4
Candidate Starts for Goldilocks_43:
(Start: 4 @34591 has 51 MA's), (Start: 5 @34579 has 1 MA's), (6, 34543), (7, 34528), (8, 34480),

Gene: GooberAzure_44 Start: 35089, Stop: 34907, Start Num: 4
Candidate Starts for GooberAzure_44:
(Start: 4 @35089 has 51 MA's), (Start: 5 @35077 has 1 MA's), (6, 35041), (7, 35026), (8, 34978),

Gene: Greep_43 Start: 35402, Stop: 35220, Start Num: 4
Candidate Starts for Greep_43:
(Start: 4 @35402 has 51 MA's), (Start: 5 @35390 has 1 MA's), (6, 35354), (7, 35339), (8, 35291),

Gene: Hidrated_67 Start: 49638, Stop: 49456, Start Num: 4
Candidate Starts for Hidrated_67:
(1, 49668), (2, 49659), (Start: 4 @49638 has 51 MA's), (Start: 5 @49626 has 1 MA's), (6, 49590), (7, 49575), (8, 49527), (9, 49491),

Gene: Hoonter_44 Start: 35089, Stop: 34907, Start Num: 4
Candidate Starts for Hoonter_44:
(Start: 4 @35089 has 51 MA's), (Start: 5 @35077 has 1 MA's), (6, 35041), (7, 35026), (8, 34978),

Gene: HufflyPuff_41 Start: 35066, Stop: 34884, Start Num: 4
Candidate Starts for HufflyPuff_41:
(Start: 4 @35066 has 51 MA's), (Start: 5 @35054 has 1 MA's), (6, 35018), (7, 35003), (8, 34955),

Gene: Icee_41 Start: 34757, Stop: 34575, Start Num: 4
Candidate Starts for Icee_41:
(Start: 4 @34757 has 51 MA's), (Start: 5 @34745 has 1 MA's), (6, 34709), (7, 34694), (8, 34646),

Gene: Jinglebell_89 Start: 50119, Stop: 50301, Start Num: 4
Candidate Starts for Jinglebell_89:
(Start: 4 @50119 has 51 MA's), (6, 50167), (7, 50182), (8, 50230), (9, 50266),

Gene: Kimchi_44 Start: 35092, Stop: 34910, Start Num: 4
Candidate Starts for Kimchi_44:
(Start: 4 @35092 has 51 MA's), (Start: 5 @35080 has 1 MA's), (6, 35044), (7, 35029), (8, 34981),

Gene: Lilac_44 Start: 34579, Stop: 34397, Start Num: 4
Candidate Starts for Lilac_44:
(Start: 4 @34579 has 51 MA's), (Start: 5 @34567 has 1 MA's), (6, 34531), (7, 34516), (8, 34468),

Gene: Lilpickle_42 Start: 34403, Stop: 34221, Start Num: 4
Candidate Starts for Lilpickle_42:
(Start: 4 @34403 has 51 MA's), (Start: 5 @34391 has 1 MA's), (6, 34355), (7, 34340), (8, 34292),

Gene: Liveloughbron_43 Start: 35196, Stop: 35014, Start Num: 4
Candidate Starts for Liveloughbron_43:
(Start: 4 @35196 has 51 MA's), (Start: 5 @35184 has 1 MA's), (6, 35148), (7, 35133), (8, 35085),

Gene: Llama_89 Start: 49975, Stop: 50157, Start Num: 4
Candidate Starts for Llama_89:
(Start: 4 @49975 has 51 MA's), (6, 50023), (7, 50038), (8, 50086), (9, 50122),

Gene: Maxxinista_43 Start: 34549, Stop: 34367, Start Num: 4
Candidate Starts for Maxxinista_43:
(Start: 4 @34549 has 51 MA's), (Start: 5 @34537 has 1 MA's), (6, 34501), (7, 34486), (8, 34438),

Gene: Modragons_87 Start: 49963, Stop: 50145, Start Num: 4
Candidate Starts for Modragons_87:
(Start: 4 @49963 has 51 MA's), (6, 50011), (7, 50026), (8, 50074), (9, 50110),

Gene: Moldemort_44 Start: 35206, Stop: 35024, Start Num: 4
Candidate Starts for Moldemort_44:
(Start: 4 @35206 has 51 MA's), (Start: 5 @35194 has 1 MA's), (6, 35158), (7, 35143), (8, 35095),

Gene: Murica_41 Start: 35066, Stop: 34884, Start Num: 4
Candidate Starts for Murica_41:
(Start: 4 @35066 has 51 MA's), (Start: 5 @35054 has 1 MA's), (6, 35018), (7, 35003), (8, 34955),

Gene: Murphy_43 Start: 35061, Stop: 34879, Start Num: 4
Candidate Starts for Murphy_43:
(Start: 4 @35061 has 51 MA's), (Start: 5 @35049 has 1 MA's), (6, 35013), (7, 34998), (8, 34950),

Gene: Nichirin_82 Start: 49321, Stop: 49521, Start Num: 3
Candidate Starts for Nichirin_82:
(3, 49321), (6, 49387), (7, 49402), (8, 49450), (9, 49486),

Gene: Nimrod_42 Start: 35312, Stop: 35142, Start Num: 5
Candidate Starts for Nimrod_42:
(Start: 4 @35324 has 51 MA's), (Start: 5 @35312 has 1 MA's), (6, 35276), (7, 35261), (8, 35213),

Gene: NoSleep_43 Start: 34821, Stop: 34639, Start Num: 4
Candidate Starts for NoSleep_43:
(Start: 4 @34821 has 51 MA's), (Start: 5 @34809 has 1 MA's), (6, 34773), (7, 34758), (8, 34710),

Gene: Ochi17_88 Start: 49570, Stop: 49752, Start Num: 4
Candidate Starts for Ochi17_88:
(Start: 4 @49570 has 51 MA's), (6, 49618), (7, 49633), (8, 49681), (9, 49717),

Gene: OfUltron_90 Start: 50119, Stop: 50301, Start Num: 4
Candidate Starts for OfUltron_90:
(Start: 4 @50119 has 51 MA's), (6, 50167), (7, 50182), (8, 50230), (9, 50266),

Gene: Palpatine_42 Start: 35096, Stop: 34914, Start Num: 4
Candidate Starts for Palpatine_42:
(Start: 4 @35096 has 51 MA's), (Start: 5 @35084 has 1 MA's), (6, 35048), (7, 35033), (8, 34985),

Gene: Petra64142_44 Start: 35548, Stop: 35378, Start Num: 5
Candidate Starts for Petra64142_44:
(Start: 4 @35560 has 51 MA's), (Start: 5 @35548 has 1 MA's), (6, 35512), (7, 35497), (8, 35449),

Gene: PhatBacter_42 Start: 35110, Stop: 34928, Start Num: 4
Candidate Starts for PhatBacter_42:
(Start: 4 @35110 has 51 MA's), (Start: 5 @35098 has 1 MA's), (6, 35062), (7, 35047), (8, 34999),

Gene: Phaux_41 Start: 35108, Stop: 34926, Start Num: 4
Candidate Starts for Phaux_41:
(Start: 4 @35108 has 51 MA's), (Start: 5 @35096 has 1 MA's), (6, 35060), (7, 35045), (8, 34997),

Gene: Policronamos_42 Start: 35108, Stop: 34926, Start Num: 4
Candidate Starts for Policronamos_42:
(Start: 4 @35108 has 51 MA's), (Start: 5 @35096 has 1 MA's), (6, 35060), (7, 35045), (8, 34997),

Gene: Rakim_43 Start: 35205, Stop: 35023, Start Num: 4
Candidate Starts for Rakim_43:
(Start: 4 @35205 has 51 MA's), (Start: 5 @35193 has 1 MA's), (6, 35157), (7, 35142), (8, 35094),

Gene: RiverMonster_42 Start: 34837, Stop: 34655, Start Num: 4
Candidate Starts for RiverMonster_42:
(Start: 4 @34837 has 51 MA's), (Start: 5 @34825 has 1 MA's), (6, 34789), (7, 34774), (8, 34726),

Gene: Seabastian_90 Start: 50120, Stop: 50302, Start Num: 4
Candidate Starts for Seabastian_90:
(Start: 4 @50120 has 51 MA's), (6, 50168), (7, 50183), (8, 50231), (9, 50267),

Gene: Sotrice96_42 Start: 35053, Stop: 34871, Start Num: 4
Candidate Starts for Sotrice96_42:
(Start: 4 @35053 has 51 MA's), (Start: 5 @35041 has 1 MA's), (6, 35005), (7, 34990), (8, 34942),

Gene: Stank_45 Start: 35605, Stop: 35423, Start Num: 4
Candidate Starts for Stank_45:
(Start: 4 @35605 has 51 MA's), (Start: 5 @35593 has 1 MA's), (6, 35557), (7, 35542), (8, 35494),

Gene: Stark_43 Start: 34840, Stop: 34658, Start Num: 4

Candidate Starts for Stark_43:

(Start: 4 @34840 has 51 MA's), (Start: 5 @34828 has 1 MA's), (6, 34792), (7, 34777), (8, 34729),

Gene: StolenFromERC_44 Start: 35089, Stop: 34907, Start Num: 4

Candidate Starts for StolenFromERC_44:

(Start: 4 @35089 has 51 MA's), (Start: 5 @35077 has 1 MA's), (6, 35041), (7, 35026), (8, 34978),

Gene: TBrady12_44 Start: 35089, Stop: 34907, Start Num: 4

Candidate Starts for TBrady12_44:

(Start: 4 @35089 has 51 MA's), (Start: 5 @35077 has 1 MA's), (6, 35041), (7, 35026), (8, 34978),

Gene: Thimble_43 Start: 34271, Stop: 34089, Start Num: 4

Candidate Starts for Thimble_43:

(Start: 4 @34271 has 51 MA's), (Start: 5 @34259 has 1 MA's), (6, 34223), (7, 34208), (8, 34160),

Gene: Thresher_44 Start: 36075, Stop: 35893, Start Num: 4

Candidate Starts for Thresher_44:

(Start: 4 @36075 has 51 MA's), (Start: 5 @36063 has 1 MA's), (6, 36027), (7, 36012), (8, 35964),

Gene: xkcd_43 Start: 35251, Stop: 35069, Start Num: 4

Candidate Starts for xkcd_43:

(Start: 4 @35251 has 51 MA's), (Start: 5 @35239 has 1 MA's), (6, 35203), (7, 35188), (8, 35140),