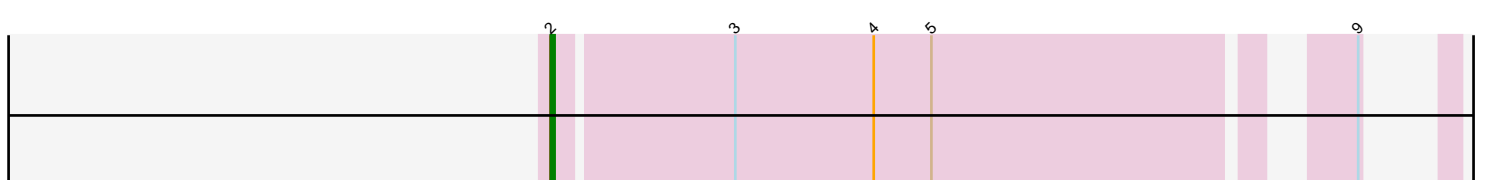
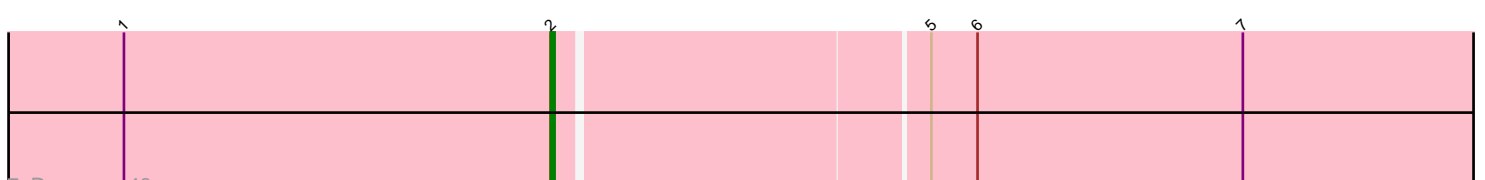
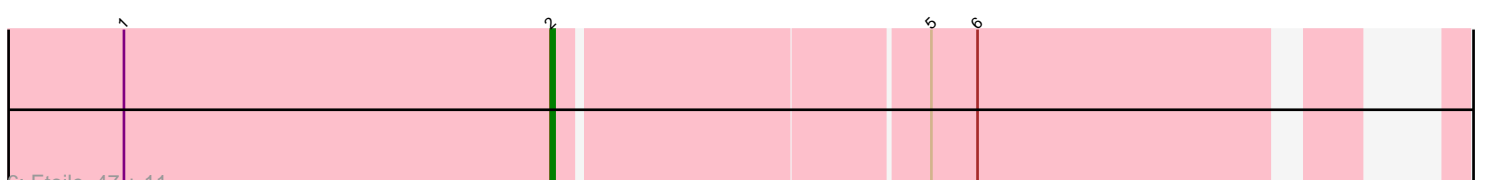
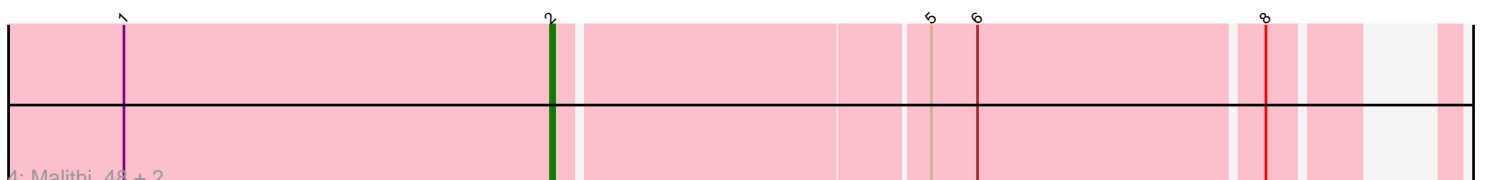
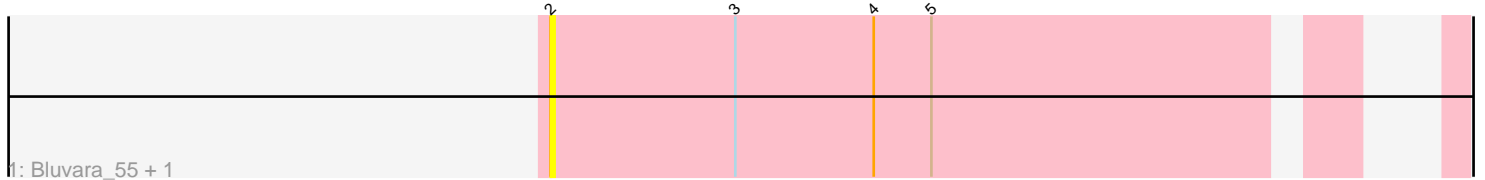


Pham 296550



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 296550 Report

This analysis was run 04/25/26 on database version 644.

Pham number 296550 has 67 members, 7 are drafts.

Phages represented in each track:

- Track 1 : Bluvara_55, Stuck_64
- Track 2 : Purgamenstris_53, Hanako_53, ShrimpFriedEgg_53, Bosection6_47, Jamie19_47, Raymond7_47, Andies_46, Impisi_54, PhancyPhin_53, Snekmaggedon_47, SpongeBob_47, Phrann_50, Panchino_46, BabeRuth_54, Nenae_53, Spinach_53, Redi_53
- Track 3 : Charlie_49
- Track 4 : Malithi_48, Necropolis_47, Dynamo_48
- Track 5 : Bunnies_49, Willsammy_47, Camster_49, CactusJack_48, Brusacoram_48, Bogie_52, StressBall_48, PeanutPie_49, Pygmy_52, Atcoo_48, Xeno_50, Thespi_48, Phineas_50, StevieRay_48, Glaske_48, Juniormint_49, Megiddo_48, Bhagsy_49, KilKor_48, HUHilltop_50, Philonius_50, GreaseLightnin_49, Shipwreck_52, Sonah_49, Phalm_48, Silvy_48, Gavriela_48, Aggie_48, Ksquared_48
- Track 6 : Etoile_47, Zilizebeth_48, Vidya_47, FirstPlacePfu_48, Bartholomew_47, Chubbello_47, Langerak_48, Fishburne_47, Kari_47, BronnyJr_46, Journey_48, Venti_48
- Track 7 : Donovan_48
- Track 8 : BigNuz_50, Nazo_51

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

The start number called the most often in the published annotations is 2, it was called in 60 of the 60 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Aggie_48, Andies_46, Atcoo_48, BabeRuth_54, Bartholomew_47, Bhagsy_49, BigNuz_50, Bluvara_55, Bogie_52, Bosection6_47, BronnyJr_46, Brusacoram_48, Bunnies_49, CactusJack_48, Camster_49, Charlie_49, Chubbello_47, Donovan_48, Dynamo_48, Etoile_47, FirstPlacePfu_48, Fishburne_47, Gavriela_48, Glaske_48, GreaseLightnin_49, HUHilltop_50, Hanako_53, Impisi_54, Jamie19_47, Journey_48, Juniormint_49, Kari_47, KilKor_48, Ksquared_48, Langerak_48, Malithi_48, Megiddo_48, Nazo_51, Necropolis_47, Nenae_53, Panchino_46, PeanutPie_49, Phalm_48, PhancyPhin_53, Philonius_50, Phineas_50, Phrann_50, Purgamenstris_53, Pygmy_52, Raymond7_47, Redi_53, Shipwreck_52, ShrimpFriedEgg_53, Silvy_48, Snekmaggedon_47, Sonah_49, Spinach_53,

SpongeBob_47, StevieRay_48, StressBall_48, Stuck_64, Thespis_48, Venti_48, Vidya_47, Willsammy_47, Xeno_50, Zilizebeth_48,

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

-

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

-

Summary by start number:

Start 2:

- Found in 67 of 67 (100.0%) of genes in pham
- Manual Annotations of this start: 60 of 60
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Aggie_48 (N), Andies_46 (N), Atcoo_48 (P1), BabeRuth_54 (N), Bartholomew_47 (P1), Bhagsy_49 (P1), BigNuz_50 (P4), Bluvara_55 (I3), Bogie_52 (P1), Bosection6_47 (N), BronnyJr_46 (P1), Brusacoram_48 (P1), Bunnies_49 (P1), CactusJack_48 (P1), Camster_49 (P1), Charlie_49 (N), Chubbello_47 (P1), Donovan_48 (P1), Dynamo_48 (P1), Etoile_47 (P1), FirstPlacePfu_48 (P1), Fishburne_47 (P1), Gavriela_48 (P1), Glaske_48 (P1), GreaseLightnin_49 (P1), HUHilltop_50 (P1), Hanako_53 (N), Impisi_54 (N), Jamie19_47 (N), Journey_48 (N), Juniormint_49 (P1), Kari_47 (P1), KillKor_48 (P1), Ksquared_48 (P1), Langerak_48 (P1), Malithi_48 (P1), Megiddo_48 (P1), Nazo_51 (P4), Necropolis_47 (P1), Nenae_53 (N), Panchino_46 (N), PeanutPie_49 (P1), Phalm_48 (P1), PhancyPhin_53 (N), Philonius_50 (N), Phineas_50 (P1), Phrann_50 (N), Purgamenstris_53 (N), Pygmy_52 (P1), Raymond7_47 (N), Redi_53 (N), Shipwreck_52 (P1), ShrimpFriedEgg_53 (N), Silvy_48 (N), Snekmaggedon_47 (N), Sonah_49 (P1), Spinach_53 (N), SpongeBob_47 (N), StevieRay_48 (P1), StressBall_48 (P1), Stuck_64 (I2), Thespis_48 (P1), Venti_48 (P1), Vidya_47 (P1), Willsammy_47 (P1), Xeno_50 (N), Zilizebeth_48 (P1),

Summary by clusters:

There are 5 clusters represented in this pham: I3, P1, I2, P4, N,

Info for manual annotations of cluster N:

- Start number 2 was manually annotated 22 times for cluster N.

Info for manual annotations of cluster P1:

- Start number 2 was manually annotated 36 times for cluster P1.

Info for manual annotations of cluster P4:

- Start number 2 was manually annotated 2 times for cluster P4.

Gene Information:

Gene: Aggie_48 Start: 33321, Stop: 33659, Start Num: 2

Candidate Starts for Aggie_48:

(Start: 2 @33321 has 60 MA's), (5, 33414), (6, 33426), (8, 33498),

Gene: Andies_46 Start: 33704, Stop: 34066, Start Num: 2

Candidate Starts for Andies_46:

(1, 33596), (Start: 2 @33704 has 60 MA's), (5, 33797), (6, 33809), (9, 33908),

Gene: Atcoo_48 Start: 34210, Stop: 34548, Start Num: 2

Candidate Starts for Atcoo_48:

(Start: 2 @34210 has 60 MA's), (5, 34303), (6, 34315), (8, 34387),

Gene: BabeRuth_54 Start: 35425, Stop: 35787, Start Num: 2

Candidate Starts for BabeRuth_54:

(1, 35317), (Start: 2 @35425 has 60 MA's), (5, 35518), (6, 35530), (9, 35629),

Gene: Bartholomew_47 Start: 33532, Stop: 33813, Start Num: 2

Candidate Starts for Bartholomew_47:

(1, 33421), (Start: 2 @33532 has 60 MA's), (5, 33625), (6, 33637),

Gene: Bhagsy_49 Start: 33715, Stop: 34053, Start Num: 2

Candidate Starts for Bhagsy_49:

(Start: 2 @33715 has 60 MA's), (5, 33808), (6, 33820), (8, 33892),

Gene: BigNuz_50 Start: 35709, Stop: 36041, Start Num: 2

Candidate Starts for BigNuz_50:

(Start: 2 @35709 has 60 MA's), (3, 35754), (4, 35790), (5, 35805), (9, 35901),

Gene: Bluvara_55 Start: 39295, Stop: 39582, Start Num: 2

Candidate Starts for Bluvara_55:

(Start: 2 @39295 has 60 MA's), (3, 39343), (4, 39379), (5, 39394),

Gene: Bogie_52 Start: 35981, Stop: 36319, Start Num: 2

Candidate Starts for Bogie_52:

(Start: 2 @35981 has 60 MA's), (5, 36074), (6, 36086), (8, 36158),

Gene: Bosection6_47 Start: 33170, Stop: 33532, Start Num: 2

Candidate Starts for Bosection6_47:

(1, 33062), (Start: 2 @33170 has 60 MA's), (5, 33263), (6, 33275), (9, 33374),

Gene: BronnyJr_46 Start: 34028, Stop: 34309, Start Num: 2

Candidate Starts for BronnyJr_46:

(1, 33917), (Start: 2 @34028 has 60 MA's), (5, 34121), (6, 34133),

Gene: Brusacoram_48 Start: 33716, Stop: 34054, Start Num: 2

Candidate Starts for Brusacoram_48:

(Start: 2 @33716 has 60 MA's), (5, 33809), (6, 33821), (8, 33893),

Gene: Bunnies_49 Start: 33730, Stop: 34068, Start Num: 2

Candidate Starts for Bunnies_49:

(Start: 2 @33730 has 60 MA's), (5, 33823), (6, 33835), (8, 33907),

Gene: CactusJack_48 Start: 33980, Stop: 34318, Start Num: 2

Candidate Starts for CactusJack_48:

(Start: 2 @33980 has 60 MA's), (5, 34073), (6, 34085), (8, 34157),

Gene: Camster_49 Start: 33737, Stop: 34075, Start Num: 2
Candidate Starts for Camster_49:
(Start: 2 @33737 has 60 MA's), (5, 33830), (6, 33842), (8, 33914),

Gene: Charlie_49 Start: 32909, Stop: 33271, Start Num: 2
Candidate Starts for Charlie_49:
(1, 32798), (Start: 2 @32909 has 60 MA's), (5, 33002), (6, 33014), (9, 33113),

Gene: Chubbello_47 Start: 33528, Stop: 33809, Start Num: 2
Candidate Starts for Chubbello_47:
(1, 33417), (Start: 2 @33528 has 60 MA's), (5, 33621), (6, 33633),

Gene: Donovan_48 Start: 33555, Stop: 33947, Start Num: 2
Candidate Starts for Donovan_48:
(1, 33444), (Start: 2 @33555 has 60 MA's), (5, 33648), (6, 33660), (7, 33729),

Gene: Dynamo_48 Start: 34015, Stop: 34353, Start Num: 2
Candidate Starts for Dynamo_48:
(1, 33904), (Start: 2 @34015 has 60 MA's), (5, 34108), (6, 34120), (8, 34192),

Gene: Etoile_47 Start: 33532, Stop: 33813, Start Num: 2
Candidate Starts for Etoile_47:
(1, 33421), (Start: 2 @33532 has 60 MA's), (5, 33625), (6, 33637),

Gene: FirstPlacePfu_48 Start: 33564, Stop: 33845, Start Num: 2
Candidate Starts for FirstPlacePfu_48:
(1, 33453), (Start: 2 @33564 has 60 MA's), (5, 33657), (6, 33669),

Gene: Fishburne_47 Start: 33532, Stop: 33813, Start Num: 2
Candidate Starts for Fishburne_47:
(1, 33421), (Start: 2 @33532 has 60 MA's), (5, 33625), (6, 33637),

Gene: Gavriela_48 Start: 33980, Stop: 34318, Start Num: 2
Candidate Starts for Gavriela_48:
(Start: 2 @33980 has 60 MA's), (5, 34073), (6, 34085), (8, 34157),

Gene: Glaske_48 Start: 33980, Stop: 34318, Start Num: 2
Candidate Starts for Glaske_48:
(Start: 2 @33980 has 60 MA's), (5, 34073), (6, 34085), (8, 34157),

Gene: GreaseLightnin_49 Start: 33959, Stop: 34297, Start Num: 2
Candidate Starts for GreaseLightnin_49:
(Start: 2 @33959 has 60 MA's), (5, 34052), (6, 34064), (8, 34136),

Gene: HUHilltop_50 Start: 34238, Stop: 34576, Start Num: 2
Candidate Starts for HUHilltop_50:
(Start: 2 @34238 has 60 MA's), (5, 34331), (6, 34343), (8, 34415),

Gene: Hanako_53 Start: 35425, Stop: 35787, Start Num: 2
Candidate Starts for Hanako_53:
(1, 35317), (Start: 2 @35425 has 60 MA's), (5, 35518), (6, 35530), (9, 35629),

Gene: Impisi_54 Start: 35222, Stop: 35584, Start Num: 2
Candidate Starts for Impisi_54:
(1, 35114), (Start: 2 @35222 has 60 MA's), (5, 35315), (6, 35327), (9, 35426),

Gene: Jamie19_47 Start: 33716, Stop: 34078, Start Num: 2
Candidate Starts for Jamie19_47:
(1, 33608), (Start: 2 @33716 has 60 MA's), (5, 33809), (6, 33821), (9, 33920),

Gene: Journey_48 Start: 32909, Stop: 33190, Start Num: 2
Candidate Starts for Journey_48:
(1, 32798), (Start: 2 @32909 has 60 MA's), (5, 33002), (6, 33014),

Gene: Juniormint_49 Start: 33752, Stop: 34090, Start Num: 2
Candidate Starts for Juniormint_49:
(Start: 2 @33752 has 60 MA's), (5, 33845), (6, 33857), (8, 33929),

Gene: Kari_47 Start: 33529, Stop: 33810, Start Num: 2
Candidate Starts for Kari_47:
(1, 33418), (Start: 2 @33529 has 60 MA's), (5, 33622), (6, 33634),

Gene: KilKor_48 Start: 33980, Stop: 34318, Start Num: 2
Candidate Starts for KilKor_48:
(Start: 2 @33980 has 60 MA's), (5, 34073), (6, 34085), (8, 34157),

Gene: Ksquared_48 Start: 33730, Stop: 34068, Start Num: 2
Candidate Starts for Ksquared_48:
(Start: 2 @33730 has 60 MA's), (5, 33823), (6, 33835), (8, 33907),

Gene: Langerak_48 Start: 33548, Stop: 33829, Start Num: 2
Candidate Starts for Langerak_48:
(1, 33437), (Start: 2 @33548 has 60 MA's), (5, 33641), (6, 33653),

Gene: Malithi_48 Start: 33448, Stop: 33786, Start Num: 2
Candidate Starts for Malithi_48:
(1, 33337), (Start: 2 @33448 has 60 MA's), (5, 33541), (6, 33553), (8, 33625),

Gene: Megiddo_48 Start: 33980, Stop: 34318, Start Num: 2
Candidate Starts for Megiddo_48:
(Start: 2 @33980 has 60 MA's), (5, 34073), (6, 34085), (8, 34157),

Gene: Nazo_51 Start: 35906, Stop: 36238, Start Num: 2
Candidate Starts for Nazo_51:
(Start: 2 @35906 has 60 MA's), (3, 35951), (4, 35987), (5, 36002), (9, 36098),

Gene: Necropolis_47 Start: 33604, Stop: 33942, Start Num: 2
Candidate Starts for Necropolis_47:
(1, 33493), (Start: 2 @33604 has 60 MA's), (5, 33697), (6, 33709), (8, 33781),

Gene: Nenae_53 Start: 35427, Stop: 35789, Start Num: 2
Candidate Starts for Nenae_53:
(1, 35319), (Start: 2 @35427 has 60 MA's), (5, 35520), (6, 35532), (9, 35631),

Gene: Panchino_46 Start: 35062, Stop: 35424, Start Num: 2

Candidate Starts for Panchino_46:
(1, 34954), (Start: 2 @35062 has 60 MA's), (5, 35155), (6, 35167), (9, 35266),

Gene: PeanutPie_49 Start: 33715, Stop: 34056, Start Num: 2
Candidate Starts for PeanutPie_49:
(Start: 2 @33715 has 60 MA's), (5, 33808), (6, 33820), (8, 33892),

Gene: Phalm_48 Start: 33980, Stop: 34318, Start Num: 2
Candidate Starts for Phalm_48:
(Start: 2 @33980 has 60 MA's), (5, 34073), (6, 34085), (8, 34157),

Gene: PhancyPhin_53 Start: 35421, Stop: 35783, Start Num: 2
Candidate Starts for PhancyPhin_53:
(1, 35313), (Start: 2 @35421 has 60 MA's), (5, 35514), (6, 35526), (9, 35625),

Gene: Philonius_50 Start: 32850, Stop: 33188, Start Num: 2
Candidate Starts for Philonius_50:
(Start: 2 @32850 has 60 MA's), (5, 32943), (6, 32955), (8, 33027),

Gene: Phineas_50 Start: 34573, Stop: 34911, Start Num: 2
Candidate Starts for Phineas_50:
(Start: 2 @34573 has 60 MA's), (5, 34666), (6, 34678), (8, 34750),

Gene: Phrann_50 Start: 35704, Stop: 36066, Start Num: 2
Candidate Starts for Phrann_50:
(1, 35596), (Start: 2 @35704 has 60 MA's), (5, 35797), (6, 35809), (9, 35908),

Gene: Purgamenstris_53 Start: 35425, Stop: 35787, Start Num: 2
Candidate Starts for Purgamenstris_53:
(1, 35317), (Start: 2 @35425 has 60 MA's), (5, 35518), (6, 35530), (9, 35629),

Gene: Pygmy_52 Start: 36037, Stop: 36375, Start Num: 2
Candidate Starts for Pygmy_52:
(Start: 2 @36037 has 60 MA's), (5, 36130), (6, 36142), (8, 36214),

Gene: Raymond7_47 Start: 35213, Stop: 35575, Start Num: 2
Candidate Starts for Raymond7_47:
(1, 35105), (Start: 2 @35213 has 60 MA's), (5, 35306), (6, 35318), (9, 35417),

Gene: Redi_53 Start: 35424, Stop: 35786, Start Num: 2
Candidate Starts for Redi_53:
(1, 35316), (Start: 2 @35424 has 60 MA's), (5, 35517), (6, 35529), (9, 35628),

Gene: Shipwreck_52 Start: 36012, Stop: 36350, Start Num: 2
Candidate Starts for Shipwreck_52:
(Start: 2 @36012 has 60 MA's), (5, 36105), (6, 36117), (8, 36189),

Gene: ShrimpFriedEgg_53 Start: 35424, Stop: 35786, Start Num: 2
Candidate Starts for ShrimpFriedEgg_53:
(1, 35316), (Start: 2 @35424 has 60 MA's), (5, 35517), (6, 35529), (9, 35628),

Gene: Silvy_48 Start: 33321, Stop: 33659, Start Num: 2
Candidate Starts for Silvy_48:

(Start: 2 @33321 has 60 MA's), (5, 33414), (6, 33426), (8, 33498),

Gene: Snekmaggedon_47 Start: 33716, Stop: 34078, Start Num: 2

Candidate Starts for Snekmaggedon_47:

(1, 33608), (Start: 2 @33716 has 60 MA's), (5, 33809), (6, 33821), (9, 33920),

Gene: Sonah_49 Start: 33709, Stop: 34047, Start Num: 2

Candidate Starts for Sonah_49:

(Start: 2 @33709 has 60 MA's), (5, 33802), (6, 33814), (8, 33886),

Gene: Spinach_53 Start: 35424, Stop: 35786, Start Num: 2

Candidate Starts for Spinach_53:

(1, 35316), (Start: 2 @35424 has 60 MA's), (5, 35517), (6, 35529), (9, 35628),

Gene: SpongeBob_47 Start: 33716, Stop: 34078, Start Num: 2

Candidate Starts for SpongeBob_47:

(1, 33608), (Start: 2 @33716 has 60 MA's), (5, 33809), (6, 33821), (9, 33920),

Gene: StevieRay_48 Start: 33682, Stop: 34020, Start Num: 2

Candidate Starts for StevieRay_48:

(Start: 2 @33682 has 60 MA's), (5, 33775), (6, 33787), (8, 33859),

Gene: StressBall_48 Start: 33980, Stop: 34318, Start Num: 2

Candidate Starts for StressBall_48:

(Start: 2 @33980 has 60 MA's), (5, 34073), (6, 34085), (8, 34157),

Gene: Stuck_64 Start: 44148, Stop: 44435, Start Num: 2

Candidate Starts for Stuck_64:

(Start: 2 @44148 has 60 MA's), (3, 44196), (4, 44232), (5, 44247),

Gene: Thespis_48 Start: 33716, Stop: 34054, Start Num: 2

Candidate Starts for Thespis_48:

(Start: 2 @33716 has 60 MA's), (5, 33809), (6, 33821), (8, 33893),

Gene: Venti_48 Start: 33532, Stop: 33813, Start Num: 2

Candidate Starts for Venti_48:

(1, 33421), (Start: 2 @33532 has 60 MA's), (5, 33625), (6, 33637),

Gene: Vidya_47 Start: 33565, Stop: 33846, Start Num: 2

Candidate Starts for Vidya_47:

(1, 33454), (Start: 2 @33565 has 60 MA's), (5, 33658), (6, 33670),

Gene: Willsammy_47 Start: 33463, Stop: 33801, Start Num: 2

Candidate Starts for Willsammy_47:

(Start: 2 @33463 has 60 MA's), (5, 33556), (6, 33568), (8, 33640),

Gene: Xeno_50 Start: 33058, Stop: 33396, Start Num: 2

Candidate Starts for Xeno_50:

(Start: 2 @33058 has 60 MA's), (5, 33151), (6, 33163), (8, 33235),

Gene: Zilizebeth_48 Start: 33564, Stop: 33845, Start Num: 2

Candidate Starts for Zilizebeth_48:

(1, 33453), (Start: 2 @33564 has 60 MA's), (5, 33657), (6, 33669),

