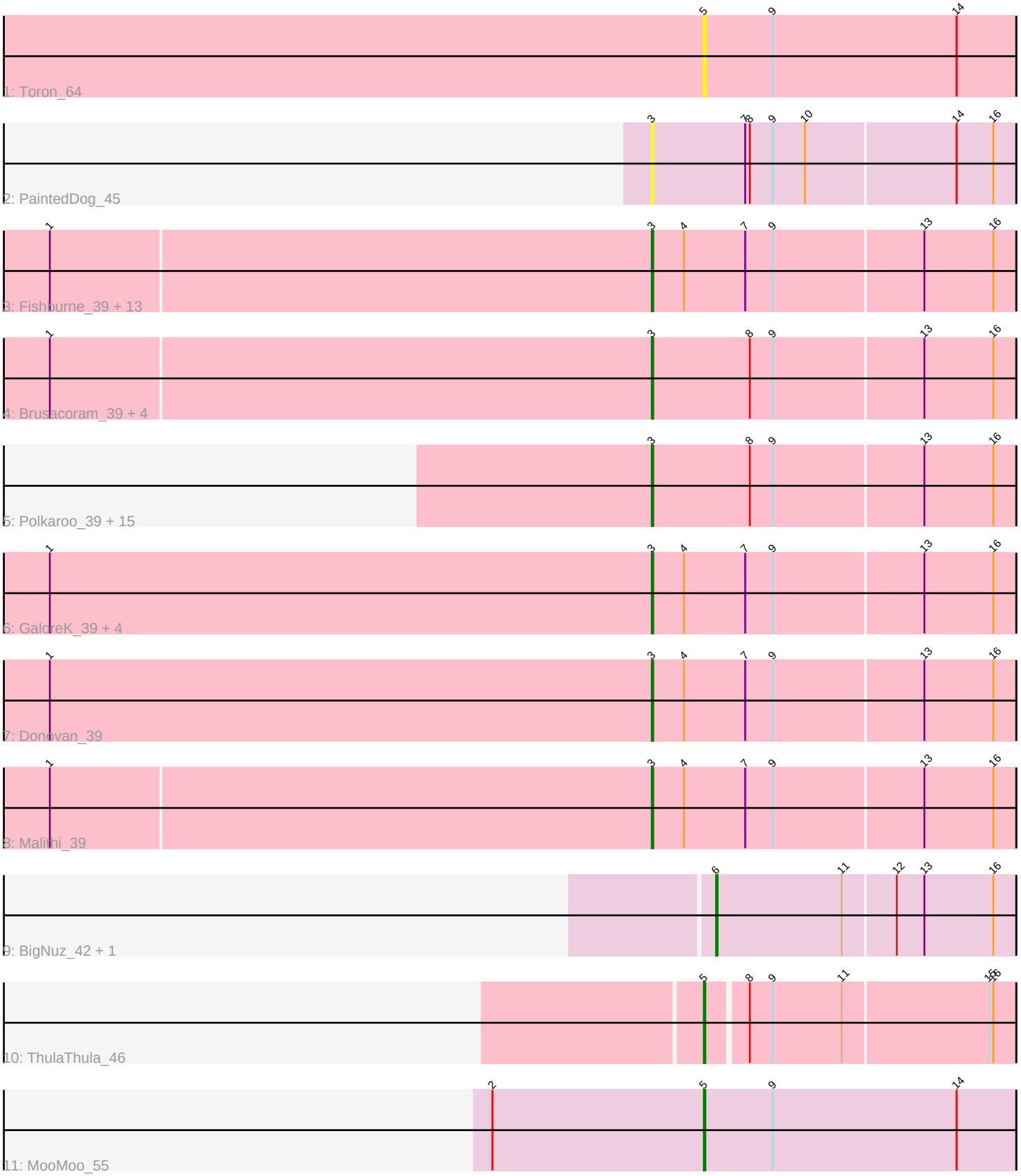
Pham 347738


1: Toron_64
2: PaintedDog_45
3: Fishburne_39 + 13
4: Brusacoram_39 + 4
5: Polkaroo_39 + 15
6: GaloreK_39 + 4
7: Donovan_39
8: Malithi_39
9: BigNuz_42 + 1
10: ThulaThula_46
11: MooMoo_55

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 347738 Report

This analysis was run 11/14/26 on database version 672.

Pham number 347738 has 48 members, 7 are drafts.

Phages represented in each track:
• Track 1 : Toron_64
• Track 2 : PaintedDog_45
• Track 3 : Fishburne_39, Jebeks_40, Necropolis_39, Venti_39, Dynamo_39, Etoile_39, BronnyJr_39, Sonah_39, Chubbello_39, Zilizebeth_39, Bartholomew_38, FirstPlacePfu_39, Vidya_39, Kari_39
• Track 4 : Brusacoram_39, Xeno_41, Atcoo_39, GreaseLightnin_39, Thespis_39
• Track 5 : Polkaroo_39, KilKor_39, Phalm_39, Bhagsy_39, Bunnies_39, PeanutPie_39, Jung_38, Willsammy_38, Ksquared_39, Gavriela_39, StevieRay_39, StressBall_39, CactusJack_39, Glaske_39, Juniormint_39, Megiddo_39
• Track 6 : GaloreK_39, Techage_39, HUHilltop_39, Langerak_39, Arib1_39
• Track 7 : Donovan_39
• Track 8 : Malithi_39
• Track 9 : BigNuz_42, Nazo_43
• Track 10 : ThulaThula_46
• Track 11 : MooMoo_55

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 37 of the 41 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Arib1_39, Atcoo_39, Bartholomew_38, Bhagsy_39, BronnyJr_39, Brusacoram_39, Bunnies_39, CactusJack_39, Chubbello_39, Donovan_39, Dynamo_39, Etoile_39, FirstPlacePfu_39, Fishburne_39, GaloreK_39, Gavriela_39, Glaske_39, GreaseLightnin_39, HUHilltop_39, Jebeks_40, Jung_38, Juniormint_39, Kari_39, KilKor_39, Ksquared_39, Langerak_39, Malithi_39, Megiddo_39, Necropolis_39, PaintedDog_45, PeanutPie_39, Phalm_39, Polkaroo_39, Sonah_39, StevieRay_39, StressBall_39, Techage_39, Thespis_39, Venti_39, Vidya_39, Willsammy_38, Xeno_41, Zilizebeth_39,

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

Genes that do not have the "Most Annotated" start:
• BigNuz_42, MooMoo_55, Nazo_43, ThulaThula_46, Toron_64,

Summary by start number:

Start 3:
• Found in 43 of 48 (89.6%) of genes in pham
• Manual Annotations of this start: 37 of 41
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Arib1_39 (P1), Atcoo_39 (P1), Bartholomew_38 (P1), Bhagsy_39 (P1), BronnyJr_39 (P1), Brusacoram_39 (P1), Bunnies_39 (P1), CactusJack_39 (P1), Chubbello_39 (P1), Donovan_39 (P1), Dynamo_39 (P1), Etoile_39 (P1), FirstPlacePfu_39 (P1), Fishburne_39 (P1), GaloreK_39 (P1), Gavriela_39 (P1), Glaske_39 (P1), GreaseLightnin_39 (P1), HUHilltop_39 (P1), Jebeks_40 (P1), Jung_38 (P1), Juniormint_39 (P1), Kari_39 (P1), KilKor_39 (P1), Ksquared_39 (P1), Langerak_39 (P1), Malithi_39 (P1), Megiddo_39 (P1), Necropolis_39 (P1), PaintedDog_45 (I1), PeanutPie_39 (P1), Phalm_39 (P1), Polkaroo_39 (P1), Sonah_39 (P1), StevieRay_39 (P1), StressBall_39 (P1), Techage_39 (P1), Thespis_39 (P1), Venti_39 (P1), Vidya_39 (P1), Willsammy_38 (P1), Xeno_41 (N), Zilizebeth_39 (P1),

Start 5:
• Found in 3 of 48 (6.2%) of genes in pham
• Manual Annotations of this start: 2 of 41
• Called 100.0% of time when present
• Phage (with cluster) where this start called: MooMoo_55 (singleton), ThulaThula_46 (P5), Toron_64 (F6),

Start 6:
• Found in 2 of 48 (4.2%) of genes in pham
• Manual Annotations of this start: 2 of 41
• Called 100.0% of time when present
• Phage (with cluster) where this start called: BigNuz_42 (P4), Nazo_43 (P4),

Summary by clusters:

There are 7 clusters represented in this pham: singleton, P1, F6, P4, P5, I1, N,

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

Info for manual annotations of cluster P1:
•Start number 3 was manually annotated 36 times for cluster P1.

Info for manual annotations of cluster P4:
•Start number 6 was manually annotated 2 times for cluster P4.

Info for manual annotations of cluster P5:
•Start number 5 was manually annotated 1 time for cluster P5.

Gene Information:

Gene: Arib1_39 Start: 30316, Stop: 30549, Start Num: 3
Candidate Starts for Arib1_39:
(1, 29923), (Start: 3 @30316 has 37 MA's), (4, 30337), (7, 30376), (9, 30394), (13, 30490), (16, 30535),

Gene: Atcoo_39 Start: 30787, Stop: 31020, Start Num: 3
Candidate Starts for Atcoo_39:
(1, 30397), (Start: 3 @30787 has 37 MA's), (8, 30850), (9, 30865), (13, 30961), (16, 31006),

Gene: Bartholomew_38 Start: 30310, Stop: 30543, Start Num: 3
Candidate Starts for Bartholomew_38:
(1, 29920), (Start: 3 @30310 has 37 MA's), (4, 30331), (7, 30370), (9, 30388), (13, 30484), (16, 30529),

Gene: Bhagsy_39 Start: 30302, Stop: 30535, Start Num: 3
Candidate Starts for Bhagsy_39:
(Start: 3 @30302 has 37 MA's), (8, 30365), (9, 30380), (13, 30476), (16, 30521),

Gene: BigNuz_42 Start: 32428, Stop: 32619, Start Num: 6
Candidate Starts for BigNuz_42:
(Start: 6 @32428 has 2 MA's), (11, 32509), (12, 32542), (13, 32560), (16, 32605),

Gene: BronnyJr_39 Start: 30807, Stop: 31040, Start Num: 3
Candidate Starts for BronnyJr_39:
(1, 30417), (Start: 3 @30807 has 37 MA's), (4, 30828), (7, 30867), (9, 30885), (13, 30981), (16, 31026),

Gene: Brusacoram_39 Start: 30293, Stop: 30526, Start Num: 3
Candidate Starts for Brusacoram_39:
(1, 29903), (Start: 3 @30293 has 37 MA's), (8, 30356), (9, 30371), (13, 30467), (16, 30512),

Gene: Bunnies_39 Start: 30317, Stop: 30550, Start Num: 3
Candidate Starts for Bunnies_39:
(Start: 3 @30317 has 37 MA's), (8, 30380), (9, 30395), (13, 30491), (16, 30536),

Gene: CactusJack_39 Start: 30557, Stop: 30790, Start Num: 3
Candidate Starts for CactusJack_39:
(Start: 3 @30557 has 37 MA's), (8, 30620), (9, 30635), (13, 30731), (16, 30776),

Gene: Chubbello_39 Start: 30306, Stop: 30539, Start Num: 3
Candidate Starts for Chubbello_39:
(1, 29916), (Start: 3 @30306 has 37 MA's), (4, 30327), (7, 30366), (9, 30384), (13, 30480), (16, 30525),

Gene: Donovan_39 Start: 30333, Stop: 30566, Start Num: 3
Candidate Starts for Donovan_39:
(1, 29940), (Start: 3 @30333 has 37 MA's), (4, 30354), (7, 30393), (9, 30411), (13, 30507), (16, 30552),

Gene: Dynamo_39 Start: 30718, Stop: 30951, Start Num: 3
Candidate Starts for Dynamo_39:
(1, 30328), (Start: 3 @30718 has 37 MA's), (4, 30739), (7, 30778), (9, 30796), (13, 30892), (16, 30937),

Gene: Etoile_39 Start: 30310, Stop: 30543, Start Num: 3
Candidate Starts for Etoile_39:
(1, 29920), (Start: 3 @30310 has 37 MA's), (4, 30331), (7, 30370), (9, 30388), (13, 30484), (16, 30529),

Gene: FirstPlacePfu_39 Start: 30342, Stop: 30575, Start Num: 3
Candidate Starts for FirstPlacePfu_39:
(1, 29952), (Start: 3 @30342 has 37 MA's), (4, 30363), (7, 30402), (9, 30420), (13, 30516), (16, 30561),

Gene: Fishburne_39 Start: 30310, Stop: 30543, Start Num: 3
Candidate Starts for Fishburne_39:
(1, 29920), (Start: 3 @30310 has 37 MA's), (4, 30331), (7, 30370), (9, 30388), (13, 30484), (16, 30529),

Gene: GaloreK_39 Start: 30306, Stop: 30539, Start Num: 3
Candidate Starts for GaloreK_39:
(1, 29913), (Start: 3 @30306 has 37 MA's), (4, 30327), (7, 30366), (9, 30384), (13, 30480), (16, 30525),

Gene: Gavriela_39 Start: 30557, Stop: 30790, Start Num: 3
Candidate Starts for Gavriela_39:
(Start: 3 @30557 has 37 MA's), (8, 30620), (9, 30635), (13, 30731), (16, 30776),

Gene: Glaske_39 Start: 30557, Stop: 30790, Start Num: 3
Candidate Starts for Glaske_39:
(Start: 3 @30557 has 37 MA's), (8, 30620), (9, 30635), (13, 30731), (16, 30776),

Gene: GreaseLightnin_39 Start: 30546, Stop: 30779, Start Num: 3
Candidate Starts for GreaseLightnin_39:
(1, 30156), (Start: 3 @30546 has 37 MA's), (8, 30609), (9, 30624), (13, 30720), (16, 30765),

Gene: HUHilltop_39 Start: 30343, Stop: 30576, Start Num: 3
Candidate Starts for HUHilltop_39:
(1, 29950), (Start: 3 @30343 has 37 MA's), (4, 30364), (7, 30403), (9, 30421), (13, 30517), (16, 30562),

Gene: Jebeks_40 Start: 30295, Stop: 30528, Start Num: 3
Candidate Starts for Jebeks_40:
(1, 29905), (Start: 3 @30295 has 37 MA's), (4, 30316), (7, 30355), (9, 30373), (13, 30469), (16, 30514),

Gene: Jung_38 Start: 30264, Stop: 30497, Start Num: 3
Candidate Starts for Jung_38:
(Start: 3 @30264 has 37 MA's), (8, 30327), (9, 30342), (13, 30438), (16, 30483),

Gene: Juniormint_39 Start: 30339, Stop: 30572, Start Num: 3
Candidate Starts for Juniormint_39:
(Start: 3 @30339 has 37 MA's), (8, 30402), (9, 30417), (13, 30513), (16, 30558),

Gene: Kari_39 Start: 30307, Stop: 30540, Start Num: 3
Candidate Starts for Kari_39:
(1, 29917), (Start: 3 @30307 has 37 MA's), (4, 30328), (7, 30367), (9, 30385), (13, 30481), (16, 30526),

Gene: KilKor_39 Start: 30557, Stop: 30790, Start Num: 3
Candidate Starts for KilKor_39:
(Start: 3 @30557 has 37 MA's), (8, 30620), (9, 30635), (13, 30731), (16, 30776),

Gene: Ksquared_39 Start: 30317, Stop: 30550, Start Num: 3
Candidate Starts for Ksquared_39:
(Start: 3 @30317 has 37 MA's), (8, 30380), (9, 30395), (13, 30491), (16, 30536),

Gene: Langerak_39 Start: 30326, Stop: 30559, Start Num: 3
Candidate Starts for Langerak_39:
(1, 29933), (Start: 3 @30326 has 37 MA's), (4, 30347), (7, 30386), (9, 30404), (13, 30500), (16, 30545),

Gene: Malithi_39 Start: 30226, Stop: 30459, Start Num: 3
Candidate Starts for Malithi_39:
(1, 29836), (Start: 3 @30226 has 37 MA's), (4, 30247), (7, 30286), (9, 30304), (13, 30400), (16, 30445),

Gene: Megiddo_39 Start: 30557, Stop: 30790, Start Num: 3
Candidate Starts for Megiddo_39:
(Start: 3 @30557 has 37 MA's), (8, 30620), (9, 30635), (13, 30731), (16, 30776),

Gene: MooMoo_55 Start: 38695, Stop: 38898, Start Num: 5
Candidate Starts for MooMoo_55:
(2, 38557), (Start: 5 @38695 has 2 MA's), (9, 38740), (14, 38860),

Gene: Nazo_43 Start: 32625, Stop: 32816, Start Num: 6
Candidate Starts for Nazo_43:
(Start: 6 @32625 has 2 MA's), (11, 32706), (12, 32739), (13, 32757), (16, 32802),

Gene: Necropolis_39 Start: 30307, Stop: 30540, Start Num: 3
Candidate Starts for Necropolis_39:
(1, 29917), (Start: 3 @30307 has 37 MA's), (4, 30328), (7, 30367), (9, 30385), (13, 30481), (16, 30526),

Gene: PaintedDog_45 Start: 32921, Stop: 33154, Start Num: 3
Candidate Starts for PaintedDog_45:
(Start: 3 @32921 has 37 MA's), (7, 32981), (8, 32984), (9, 32999), (10, 33020), (14, 33116), (16, 33140),

Gene: PeanutPie_39 Start: 30302, Stop: 30535, Start Num: 3
Candidate Starts for PeanutPie_39:
(Start: 3 @30302 has 37 MA's), (8, 30365), (9, 30380), (13, 30476), (16, 30521),

Gene: Phalm_39 Start: 30557, Stop: 30790, Start Num: 3
Candidate Starts for Phalm_39:
(Start: 3 @30557 has 37 MA's), (8, 30620), (9, 30635), (13, 30731), (16, 30776),

Gene: Polkaroo_39 Start: 30314, Stop: 30547, Start Num: 3
Candidate Starts for Polkaroo_39:
(Start: 3 @30314 has 37 MA's), (8, 30377), (9, 30392), (13, 30488), (16, 30533),

Gene: Sonah_39 Start: 30296, Stop: 30529, Start Num: 3
Candidate Starts for Sonah_39:
(1, 29906), (Start: 3 @30296 has 37 MA's), (4, 30317), (7, 30356), (9, 30374), (13, 30470), (16, 30515),

Gene: StevieRay_39 Start: 30259, Stop: 30492, Start Num: 3
Candidate Starts for StevieRay_39:
(Start: 3 @30259 has 37 MA's), (8, 30322), (9, 30337), (13, 30433), (16, 30478),

Gene: StressBall_39 Start: 30557, Stop: 30790, Start Num: 3
Candidate Starts for StressBall_39:
(Start: 3 @30557 has 37 MA's), (8, 30620), (9, 30635), (13, 30731), (16, 30776),

Gene: Techage_39 Start: 30336, Stop: 30569, Start Num: 3
Candidate Starts for Techage_39:
(1, 29943), (Start: 3 @30336 has 37 MA's), (4, 30357), (7, 30396), (9, 30414), (13, 30510), (16, 30555),

Gene: Thespis_39 Start: 30293, Stop: 30526, Start Num: 3
Candidate Starts for Thespis_39:
(1, 29903), (Start: 3 @30293 has 37 MA's), (8, 30356), (9, 30371), (13, 30467), (16, 30512),

Gene: ThulaThula_46 Start: 34718, Stop: 34912, Start Num: 5
Candidate Starts for ThulaThula_46:
(Start: 5 @34718 has 2 MA's), (8, 34742), (9, 34757), (11, 34802), (15, 34895), (16, 34898),

Gene: Toron_64 Start: 41626, Stop: 41829, Start Num: 5
Candidate Starts for Toron_64:
(Start: 5 @41626 has 2 MA's), (9, 41671), (14, 41791),

Gene: Venti_39 Start: 30310, Stop: 30543, Start Num: 3
Candidate Starts for Venti_39:
(1, 29920), (Start: 3 @30310 has 37 MA's), (4, 30331), (7, 30370), (9, 30388), (13, 30484), (16, 30529),

Gene: Vidya_39 Start: 30343, Stop: 30576, Start Num: 3
Candidate Starts for Vidya_39:
(1, 29953), (Start: 3 @30343 has 37 MA's), (4, 30364), (7, 30403), (9, 30421), (13, 30517), (16, 30562),

Gene: Willsammy_38 Start: 30040, Stop: 30273, Start Num: 3
Candidate Starts for Willsammy_38:
(Start: 3 @30040 has 37 MA's), (8, 30103), (9, 30118), (13, 30214), (16, 30259),

Gene: Xeno_41 Start: 29635, Stop: 29868, Start Num: 3
Candidate Starts for Xeno_41:
(1, 29245), (Start: 3 @29635 has 37 MA's), (8, 29698), (9, 29713), (13, 29809), (16, 29854),

Gene: Zilizebeth_39 Start: 30342, Stop: 30575, Start Num: 3
Candidate Starts for Zilizebeth_39:
(1, 29952), (Start: 3 @30342 has 37 MA's), (4, 30363), (7, 30402), (9, 30420), (13, 30516), (16, 30561),