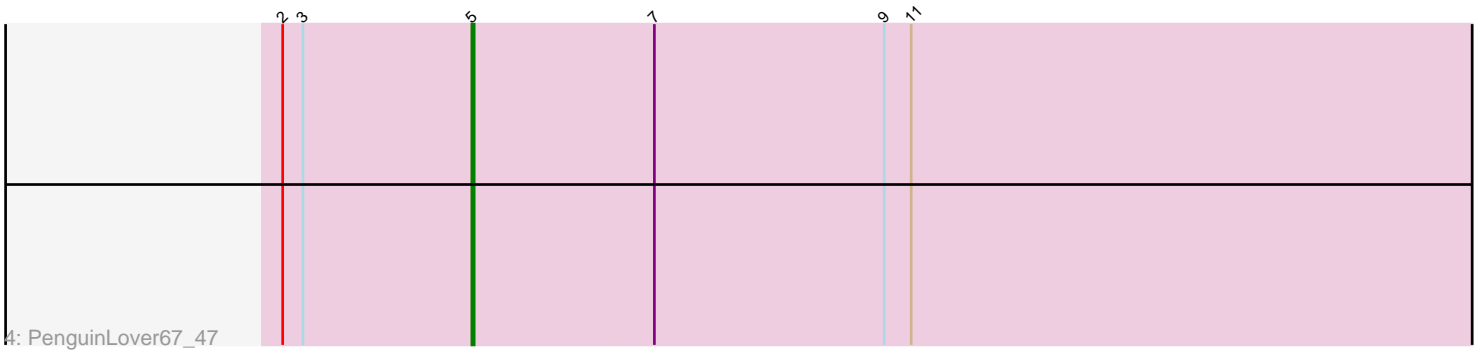
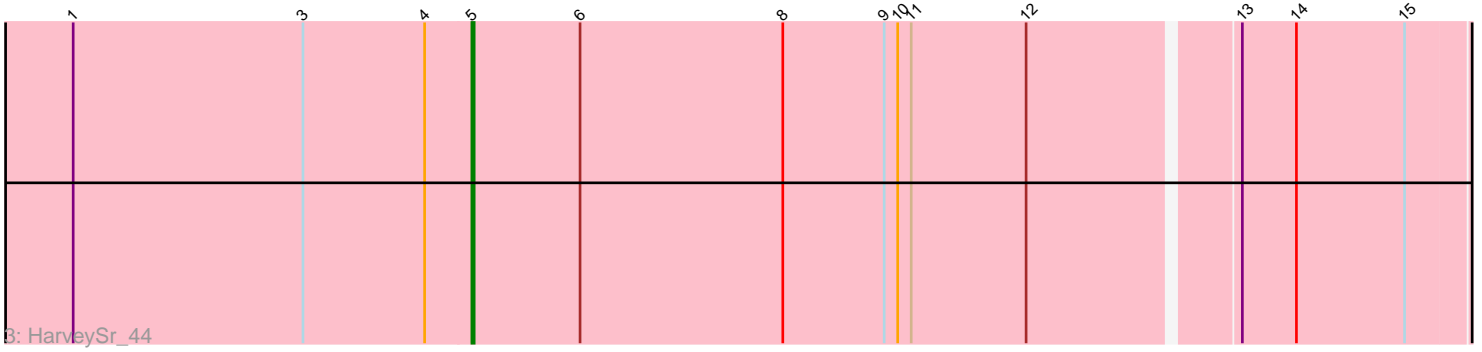
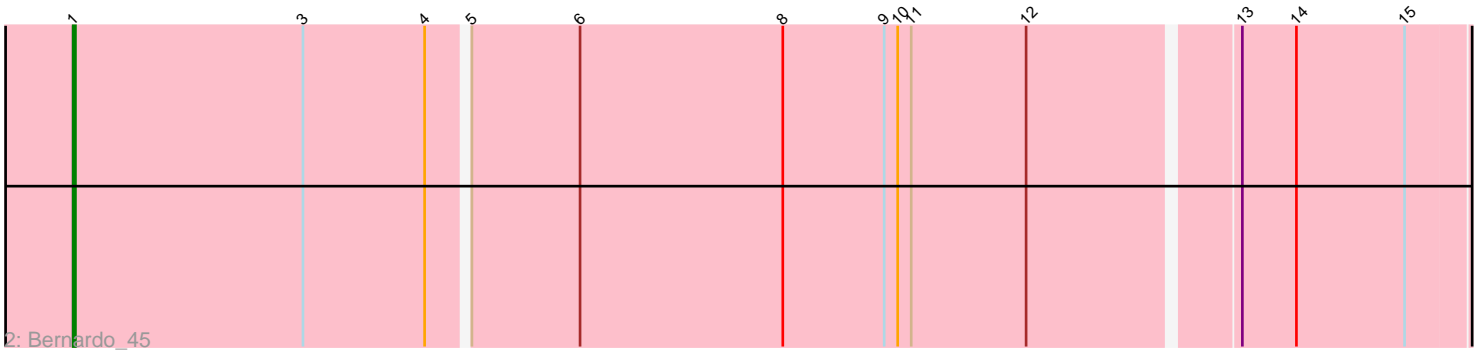
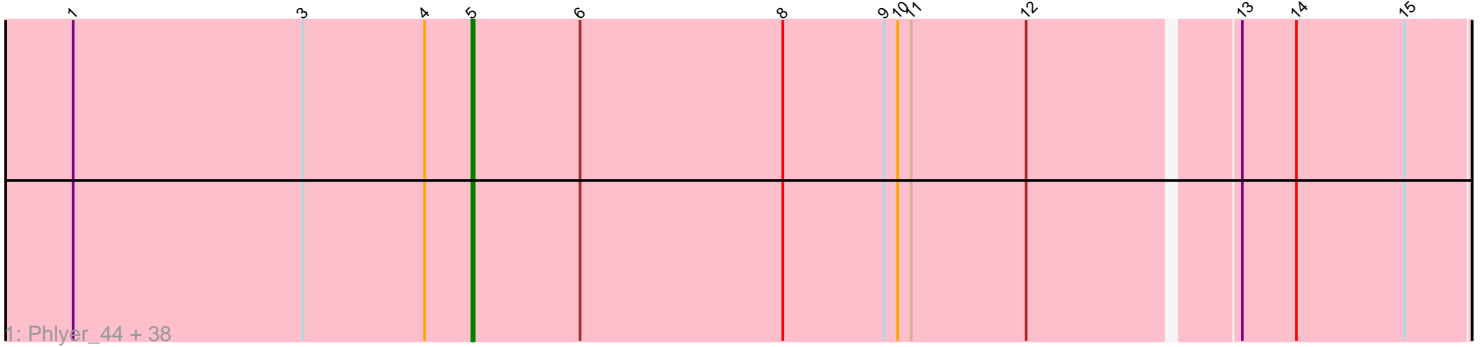


Pham 305128



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 305128 Report

This analysis was run 06/08/26 on database version 649.

Pham number 305128 has 42 members, 0 are drafts.

Phages represented in each track:

- Track 1 : Phlyer_44, Nozo_44, Heathcliff_44, MmasiCarm_44, Neos5_44, Obutu_44, GlenHope_45, Pipefish_46, Yinz_44, Mortcellus_43, ChaChing_44, SynergyX_44, RagingRooster_44, Compostia_45, Briakila_45, Corofin_44, Baloo_44, Kronus_43, OrangeOswald_44, LestyG_44, Athena_45, SwainyDoc_44, Chalmers_44, Gervas_44, Abinghost_44, Daisy_44, Gadget_45, Philly_43, Chentzyk_44, Yahalom_44, Devonte_44, Ben11_43, Deenasa_44, RomaT_44, Glubnar_45, Kamiyu_44, Rita1961_44, TinyTerror_44, Marley1013_44
- Track 2 : Bernardo_45
- Track 3 : HarveySr_44
- Track 4 : PenguinLover67_47

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

The start number called the most often in the published annotations is 5, it was called in 41 of the 42 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Abinghost_44, Athena_45, Baloo_44, Ben11_43, Briakila_45, ChaChing_44, Chalmers_44, Chentzyk_44, Compostia_45, Corofin_44, Daisy_44, Deenasa_44, Devonte_44, Gadget_45, Gervas_44, GlenHope_45, Glubnar_45, HarveySr_44, Heathcliff_44, Kamiyu_44, Kronus_43, LestyG_44, Marley1013_44, MmasiCarm_44, Mortcellus_43, Neos5_44, Nozo_44, Obutu_44, OrangeOswald_44, PenguinLover67_47, Philly_43, Phlyer_44, Pipefish_46, RagingRooster_44, Rita1961_44, RomaT_44, SwainyDoc_44, SynergyX_44, TinyTerror_44, Yahalom_44, Yinz_44,

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

- Bernardo_45,

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

-

Summary by start number:

Start 1:

- Found in 41 of 42 (97.6%) of genes in pham
- Manual Annotations of this start: 1 of 42
- Called 2.4% of time when present
- Phage (with cluster) where this start called: Bernardo_45 (B3),

Start 5:

- Found in 42 of 42 (100.0%) of genes in pham
- Manual Annotations of this start: 41 of 42
- Called 97.6% of time when present
- Phage (with cluster) where this start called: Abinghost_44 (B3), Athena_45 (B3), Baloo_44 (B3), Ben11_43 (B3), Briakila_45 (B3), ChaChing_44 (B3), Chalmers_44 (B3), Chentzyk_44 (B3), Compostia_45 (B3), Corofin_44 (B3), Daisy_44 (B3), Deenasa_44 (B3), Devonte_44 (B3), Gadget_45 (B3), Gervas_44 (B3), GlenHope_45 (B3), Glubnar_45 (B3), HarveySr_44 (B3), Heathcliff_44 (B3), Kamiyu_44 (B3), Kronus_43 (B3), LestyG_44 (B3), Marley1013_44 (B3), MmasiCarm_44 (B3), Mortcellus_43 (B3), Neos5_44 (B3), Nozo_44 (B3), Obutu_44 (B3), OrangeOswald_44 (B3), PenguinLover67_47 (B9), Philly_43 (B3), Phlyer_44 (B3), Pipefish_46 (B3), RagingRooster_44 (B3), Rita1961_44 (B3), RomaT_44 (B3), SwainyDoc_44 (B3), SynergyX_44 (B3), TinyTerror_44 (B3), Yahalom_44 (B3), Yinz_44 (B3),

Summary by clusters:

There are 2 clusters represented in this pham: B9, B3,

Info for manual annotations of cluster B3:

- Start number 1 was manually annotated 1 time for cluster B3.
- Start number 5 was manually annotated 40 times for cluster B3.

Info for manual annotations of cluster B9:

- Start number 5 was manually annotated 1 time for cluster B9.

Gene Information:

Gene: Abinghost_44 Start: 39509, Stop: 39024, Start Num: 5

Candidate Starts for Abinghost_44:

(Start: 1 @39680 has 1 MA's), (3, 39578), (4, 39524), (Start: 5 @39509 has 41 MA's), (6, 39461), (8, 39371), (9, 39326), (10, 39320), (11, 39314), (12, 39263), (13, 39176), (14, 39152), (15, 39104),

Gene: Athena_45 Start: 40260, Stop: 39775, Start Num: 5

Candidate Starts for Athena_45:

(Start: 1 @40431 has 1 MA's), (3, 40329), (4, 40275), (Start: 5 @40260 has 41 MA's), (6, 40212), (8, 40122), (9, 40077), (10, 40071), (11, 40065), (12, 40014), (13, 39927), (14, 39903), (15, 39855),

Gene: Baloo_44 Start: 39512, Stop: 39027, Start Num: 5

Candidate Starts for Baloo_44:

(Start: 1 @39683 has 1 MA's), (3, 39581), (4, 39527), (Start: 5 @39512 has 41 MA's), (6, 39464), (8, 39374), (9, 39329), (10, 39323), (11, 39317), (12, 39266), (13, 39179), (14, 39155), (15, 39107),

Gene: Ben11_43 Start: 39331, Stop: 38846, Start Num: 5

Candidate Starts for Ben11_43:

(Start: 1 @39502 has 1 MA's), (3, 39400), (4, 39346), (Start: 5 @39331 has 41 MA's), (6, 39283), (8, 39193), (9, 39148), (10, 39142), (11, 39136), (12, 39085), (13, 38998), (14, 38974), (15, 38926),

Gene: Bernardo_45 Start: 40228, Stop: 39572, Start Num: 1

Candidate Starts for Bernardo_45:

(Start: 1 @40228 has 1 MA's), (3, 40126), (4, 40072), (Start: 5 @40057 has 41 MA's), (6, 40009), (8, 39919), (9, 39874), (10, 39868), (11, 39862), (12, 39811), (13, 39724), (14, 39700), (15, 39652),

Gene: Briakila_45 Start: 40279, Stop: 39794, Start Num: 5

Candidate Starts for Briakila_45:

(Start: 1 @40450 has 1 MA's), (3, 40348), (4, 40294), (Start: 5 @40279 has 41 MA's), (6, 40231), (8, 40141), (9, 40096), (10, 40090), (11, 40084), (12, 40033), (13, 39946), (14, 39922), (15, 39874),

Gene: ChaChing_44 Start: 39524, Stop: 39039, Start Num: 5

Candidate Starts for ChaChing_44:

(Start: 1 @39695 has 1 MA's), (3, 39593), (4, 39539), (Start: 5 @39524 has 41 MA's), (6, 39476), (8, 39386), (9, 39341), (10, 39335), (11, 39329), (12, 39278), (13, 39191), (14, 39167), (15, 39119),

Gene: Chalmers_44 Start: 40316, Stop: 39831, Start Num: 5

Candidate Starts for Chalmers_44:

(Start: 1 @40487 has 1 MA's), (3, 40385), (4, 40331), (Start: 5 @40316 has 41 MA's), (6, 40268), (8, 40178), (9, 40133), (10, 40127), (11, 40121), (12, 40070), (13, 39983), (14, 39959), (15, 39911),

Gene: Chentzyk_44 Start: 39873, Stop: 39388, Start Num: 5

Candidate Starts for Chentzyk_44:

(Start: 1 @40044 has 1 MA's), (3, 39942), (4, 39888), (Start: 5 @39873 has 41 MA's), (6, 39825), (8, 39735), (9, 39690), (10, 39684), (11, 39678), (12, 39627), (13, 39540), (14, 39516), (15, 39468),

Gene: Compostia_45 Start: 39940, Stop: 39455, Start Num: 5

Candidate Starts for Compostia_45:

(Start: 1 @40111 has 1 MA's), (3, 40009), (4, 39955), (Start: 5 @39940 has 41 MA's), (6, 39892), (8, 39802), (9, 39757), (10, 39751), (11, 39745), (12, 39694), (13, 39607), (14, 39583), (15, 39535),

Gene: Corofin_44 Start: 39535, Stop: 39050, Start Num: 5

Candidate Starts for Corofin_44:

(Start: 1 @39706 has 1 MA's), (3, 39604), (4, 39550), (Start: 5 @39535 has 41 MA's), (6, 39487), (8, 39397), (9, 39352), (10, 39346), (11, 39340), (12, 39289), (13, 39202), (14, 39178), (15, 39130),

Gene: Daisy_44 Start: 39536, Stop: 39051, Start Num: 5

Candidate Starts for Daisy_44:

(Start: 1 @39707 has 1 MA's), (3, 39605), (4, 39551), (Start: 5 @39536 has 41 MA's), (6, 39488), (8, 39398), (9, 39353), (10, 39347), (11, 39341), (12, 39290), (13, 39203), (14, 39179), (15, 39131),

Gene: Deenasa_44 Start: 40271, Stop: 39786, Start Num: 5

Candidate Starts for Deenasa_44:

(Start: 1 @40442 has 1 MA's), (3, 40340), (4, 40286), (Start: 5 @40271 has 41 MA's), (6, 40223), (8, 40133), (9, 40088), (10, 40082), (11, 40076), (12, 40025), (13, 39938), (14, 39914), (15, 39866),

Gene: Devonte_44 Start: 39500, Stop: 39015, Start Num: 5

Candidate Starts for Devonte_44:

(Start: 1 @39671 has 1 MA's), (3, 39569), (4, 39515), (Start: 5 @39500 has 41 MA's), (6, 39452), (8, 39362), (9, 39317), (10, 39311), (11, 39305), (12, 39254), (13, 39167), (14, 39143), (15, 39095),

Gene: Gadget_45 Start: 39523, Stop: 39038, Start Num: 5

Candidate Starts for Gadget_45:

(Start: 1 @39694 has 1 MA's), (3, 39592), (4, 39538), (Start: 5 @39523 has 41 MA's), (6, 39475), (8, 39385), (9, 39340), (10, 39334), (11, 39328), (12, 39277), (13, 39190), (14, 39166), (15, 39118),

Gene: Gervas_44 Start: 39490, Stop: 39005, Start Num: 5

Candidate Starts for Gervas_44:

(Start: 1 @39661 has 1 MA's), (3, 39559), (4, 39505), (Start: 5 @39490 has 41 MA's), (6, 39442), (8, 39352), (9, 39307), (10, 39301), (11, 39295), (12, 39244), (13, 39157), (14, 39133), (15, 39085),

Gene: GlenHope_45 Start: 39503, Stop: 39018, Start Num: 5

Candidate Starts for GlenHope_45:

(Start: 1 @39674 has 1 MA's), (3, 39572), (4, 39518), (Start: 5 @39503 has 41 MA's), (6, 39455), (8, 39365), (9, 39320), (10, 39314), (11, 39308), (12, 39257), (13, 39170), (14, 39146), (15, 39098),

Gene: Glubnar_45 Start: 39502, Stop: 39017, Start Num: 5

Candidate Starts for Glubnar_45:

(Start: 1 @39673 has 1 MA's), (3, 39571), (4, 39517), (Start: 5 @39502 has 41 MA's), (6, 39454), (8, 39364), (9, 39319), (10, 39313), (11, 39307), (12, 39256), (13, 39169), (14, 39145), (15, 39097),

Gene: HarveySr_44 Start: 39496, Stop: 39011, Start Num: 5

Candidate Starts for HarveySr_44:

(Start: 1 @39667 has 1 MA's), (3, 39565), (4, 39511), (Start: 5 @39496 has 41 MA's), (6, 39448), (8, 39358), (9, 39313), (10, 39307), (11, 39301), (12, 39250), (13, 39163), (14, 39139), (15, 39091),

Gene: Heathcliff_44 Start: 39474, Stop: 38989, Start Num: 5

Candidate Starts for Heathcliff_44:

(Start: 1 @39645 has 1 MA's), (3, 39543), (4, 39489), (Start: 5 @39474 has 41 MA's), (6, 39426), (8, 39336), (9, 39291), (10, 39285), (11, 39279), (12, 39228), (13, 39141), (14, 39117), (15, 39069),

Gene: Kamiyu_44 Start: 39482, Stop: 38997, Start Num: 5

Candidate Starts for Kamiyu_44:

(Start: 1 @39653 has 1 MA's), (3, 39551), (4, 39497), (Start: 5 @39482 has 41 MA's), (6, 39434), (8, 39344), (9, 39299), (10, 39293), (11, 39287), (12, 39236), (13, 39149), (14, 39125), (15, 39077),

Gene: Kronus_43 Start: 40092, Stop: 39607, Start Num: 5

Candidate Starts for Kronus_43:

(Start: 1 @40263 has 1 MA's), (3, 40161), (4, 40107), (Start: 5 @40092 has 41 MA's), (6, 40044), (8, 39954), (9, 39909), (10, 39903), (11, 39897), (12, 39846), (13, 39759), (14, 39735), (15, 39687),

Gene: LestyG_44 Start: 39513, Stop: 39028, Start Num: 5

Candidate Starts for LestyG_44:

(Start: 1 @39684 has 1 MA's), (3, 39582), (4, 39528), (Start: 5 @39513 has 41 MA's), (6, 39465), (8, 39375), (9, 39330), (10, 39324), (11, 39318), (12, 39267), (13, 39180), (14, 39156), (15, 39108),

Gene: Marley1013_44 Start: 40291, Stop: 39806, Start Num: 5

Candidate Starts for Marley1013_44:

(Start: 1 @40462 has 1 MA's), (3, 40360), (4, 40306), (Start: 5 @40291 has 41 MA's), (6, 40243), (8, 40153), (9, 40108), (10, 40102), (11, 40096), (12, 40045), (13, 39958), (14, 39934), (15, 39886),

Gene: MmasiCarm_44 Start: 39495, Stop: 39010, Start Num: 5

Candidate Starts for MmasiCarm_44:

(Start: 1 @39666 has 1 MA's), (3, 39564), (4, 39510), (Start: 5 @39495 has 41 MA's), (6, 39447), (8, 39357), (9, 39312), (10, 39306), (11, 39300), (12, 39249), (13, 39162), (14, 39138), (15, 39090),

Gene: Mortcellus_43 Start: 40147, Stop: 39662, Start Num: 5

Candidate Starts for Mortcellus_43:

(Start: 1 @40318 has 1 MA's), (3, 40216), (4, 40162), (Start: 5 @40147 has 41 MA's), (6, 40099), (8, 40009), (9, 39964), (10, 39958), (11, 39952), (12, 39901), (13, 39814), (14, 39790), (15, 39742),

Gene: Neos5_44 Start: 40306, Stop: 39821, Start Num: 5

Candidate Starts for Neos5_44:

(Start: 1 @40477 has 1 MA's), (3, 40375), (4, 40321), (Start: 5 @40306 has 41 MA's), (6, 40258), (8, 40168), (9, 40123), (10, 40117), (11, 40111), (12, 40060), (13, 39973), (14, 39949), (15, 39901),

Gene: Nozo_44 Start: 40271, Stop: 39786, Start Num: 5

Candidate Starts for Nozo_44:

(Start: 1 @40442 has 1 MA's), (3, 40340), (4, 40286), (Start: 5 @40271 has 41 MA's), (6, 40223), (8, 40133), (9, 40088), (10, 40082), (11, 40076), (12, 40025), (13, 39938), (14, 39914), (15, 39866),

Gene: Obutu_44 Start: 39495, Stop: 39010, Start Num: 5

Candidate Starts for Obutu_44:

(Start: 1 @39666 has 1 MA's), (3, 39564), (4, 39510), (Start: 5 @39495 has 41 MA's), (6, 39447), (8, 39357), (9, 39312), (10, 39306), (11, 39300), (12, 39249), (13, 39162), (14, 39138), (15, 39090),

Gene: OrangeOswald_44 Start: 39512, Stop: 39027, Start Num: 5

Candidate Starts for OrangeOswald_44:

(Start: 1 @39683 has 1 MA's), (3, 39581), (4, 39527), (Start: 5 @39512 has 41 MA's), (6, 39464), (8, 39374), (9, 39329), (10, 39323), (11, 39317), (12, 39266), (13, 39179), (14, 39155), (15, 39107),

Gene: PenguinLover67_47 Start: 41507, Stop: 41013, Start Num: 5

Candidate Starts for PenguinLover67_47:

(2, 41591), (3, 41582), (Start: 5 @41507 has 41 MA's), (7, 41429), (9, 41327), (11, 41315),

Gene: Philly_43 Start: 39363, Stop: 38878, Start Num: 5

Candidate Starts for Philly_43:

(Start: 1 @39534 has 1 MA's), (3, 39432), (4, 39378), (Start: 5 @39363 has 41 MA's), (6, 39315), (8, 39225), (9, 39180), (10, 39174), (11, 39168), (12, 39117), (13, 39030), (14, 39006), (15, 38958),

Gene: Phlyer_44 Start: 40251, Stop: 39766, Start Num: 5

Candidate Starts for Phlyer_44:

(Start: 1 @40422 has 1 MA's), (3, 40320), (4, 40266), (Start: 5 @40251 has 41 MA's), (6, 40203), (8, 40113), (9, 40068), (10, 40062), (11, 40056), (12, 40005), (13, 39918), (14, 39894), (15, 39846),

Gene: Pipefish_46 Start: 40904, Stop: 40419, Start Num: 5

Candidate Starts for Pipefish_46:

(Start: 1 @41075 has 1 MA's), (3, 40973), (4, 40919), (Start: 5 @40904 has 41 MA's), (6, 40856), (8, 40766), (9, 40721), (10, 40715), (11, 40709), (12, 40658), (13, 40571), (14, 40547), (15, 40499),

Gene: RagingRooster_44 Start: 39513, Stop: 39028, Start Num: 5

Candidate Starts for RagingRooster_44:

(Start: 1 @39684 has 1 MA's), (3, 39582), (4, 39528), (Start: 5 @39513 has 41 MA's), (6, 39465), (8, 39375), (9, 39330), (10, 39324), (11, 39318), (12, 39267), (13, 39180), (14, 39156), (15, 39108),

Gene: Rita1961_44 Start: 39496, Stop: 39011, Start Num: 5

Candidate Starts for Rita1961_44:

(Start: 1 @39667 has 1 MA's), (3, 39565), (4, 39511), (Start: 5 @39496 has 41 MA's), (6, 39448), (8, 39358), (9, 39313), (10, 39307), (11, 39301), (12, 39250), (13, 39163), (14, 39139), (15, 39091),

Gene: RomaT_44 Start: 40286, Stop: 39801, Start Num: 5

Candidate Starts for RomaT_44:

(Start: 1 @40457 has 1 MA's), (3, 40355), (4, 40301), (Start: 5 @40286 has 41 MA's), (6, 40238), (8, 40148), (9, 40103), (10, 40097), (11, 40091), (12, 40040), (13, 39953), (14, 39929), (15, 39881),

Gene: SwainyDoc_44 Start: 39507, Stop: 39022, Start Num: 5

Candidate Starts for SwainyDoc_44:

(Start: 1 @39678 has 1 MA's), (3, 39576), (4, 39522), (Start: 5 @39507 has 41 MA's), (6, 39459), (8, 39369), (9, 39324), (10, 39318), (11, 39312), (12, 39261), (13, 39174), (14, 39150), (15, 39102),

Gene: SynergyX_44 Start: 39513, Stop: 39028, Start Num: 5

Candidate Starts for SynergyX_44:

(Start: 1 @39684 has 1 MA's), (3, 39582), (4, 39528), (Start: 5 @39513 has 41 MA's), (6, 39465), (8, 39375), (9, 39330), (10, 39324), (11, 39318), (12, 39267), (13, 39180), (14, 39156), (15, 39108),

Gene: TinyTerror_44 Start: 39498, Stop: 39013, Start Num: 5

Candidate Starts for TinyTerror_44:

(Start: 1 @39669 has 1 MA's), (3, 39567), (4, 39513), (Start: 5 @39498 has 41 MA's), (6, 39450), (8, 39360), (9, 39315), (10, 39309), (11, 39303), (12, 39252), (13, 39165), (14, 39141), (15, 39093),

Gene: Yahalom_44 Start: 39523, Stop: 39038, Start Num: 5

Candidate Starts for Yahalom_44:

(Start: 1 @39694 has 1 MA's), (3, 39592), (4, 39538), (Start: 5 @39523 has 41 MA's), (6, 39475), (8, 39385), (9, 39340), (10, 39334), (11, 39328), (12, 39277), (13, 39190), (14, 39166), (15, 39118),

Gene: Yinz_44 Start: 39549, Stop: 39064, Start Num: 5

Candidate Starts for Yinz_44:

(Start: 1 @39720 has 1 MA's), (3, 39618), (4, 39564), (Start: 5 @39549 has 41 MA's), (6, 39501), (8, 39411), (9, 39366), (10, 39360), (11, 39354), (12, 39303), (13, 39216), (14, 39192), (15, 39144),