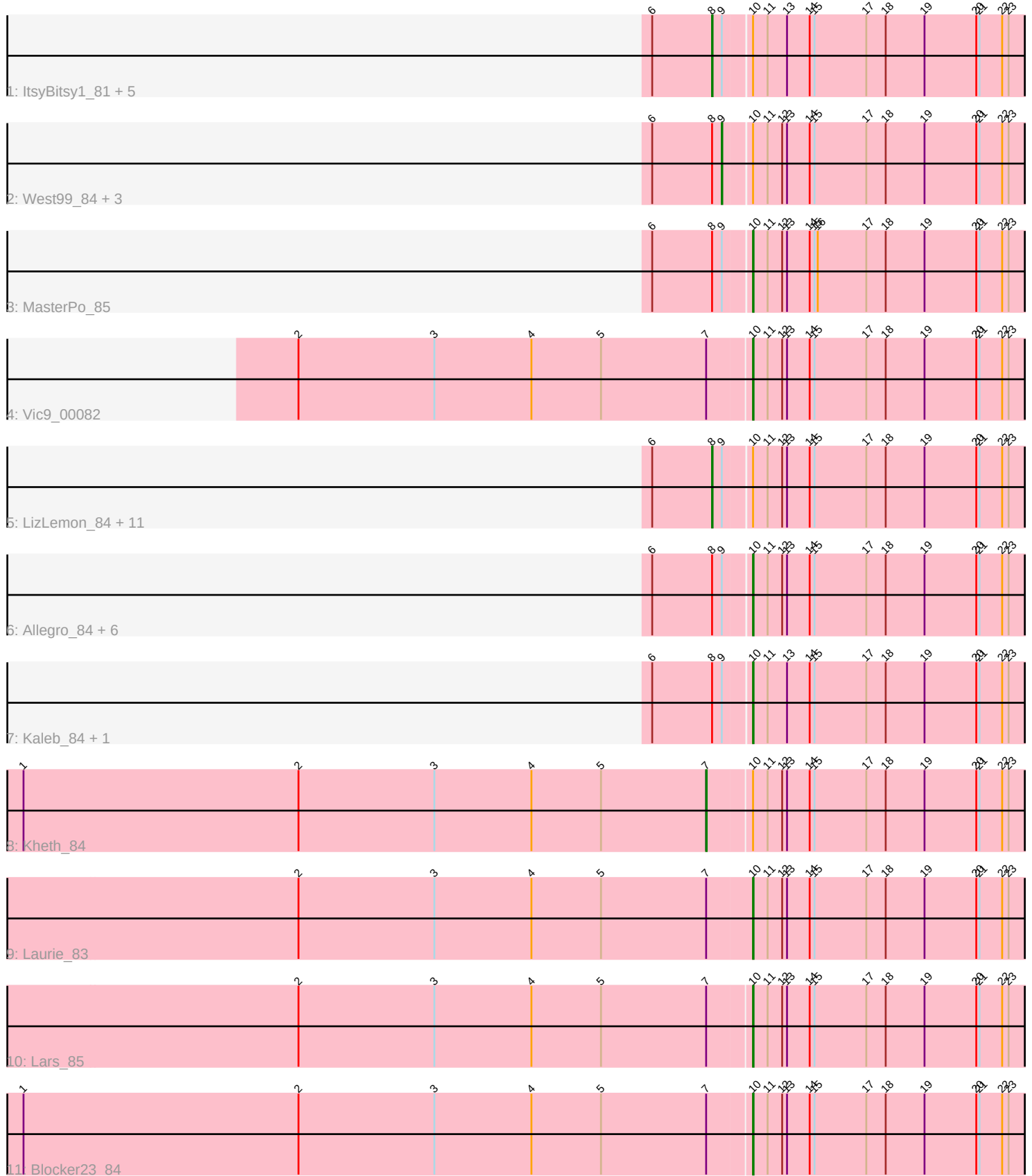


Pham 280641



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 280641 Report

This analysis was run 02/07/26 on database version 634.

Pham number 280641 has 37 members, 2 are drafts.

Phages represented in each track:

- Track 1 : ItsyBitsy1_81, TA17A_87, Holeinone_84, Glass_86, Godines_84, Rosebush_82
- Track 2 : West99_84, Tres_84, PrinceCharming_84, LilSmirk_84
- Track 3 : MasterPo_85
- Track 4 : Vic9_00082
- Track 5 : LizLemon_84, Arbiter_81, Hedgerow_84, FrenchFry_85, Qyrzula_75, Brownie5_84, Bananafish_85, Sabella_84, Tinciduntsum_85, Rhinoforte_84, Opia_85, Ares_84
- Track 6 : Allegro_84, Kolhan_85, Boyle_84, Calamitous_85, Faze9_83, Coffee_83, Phantasmagoria_83
- Track 7 : Kaleb_84, Lephleur_84
- Track 8 : Kheth_84
- Track 9 : Laurie_83
- Track 10 : Lars_85
- Track 11 : Blocker23_84

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

The start number called the most often in the published annotations is 8, it was called in 18 of the 35 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Arbiter_81, Ares_84, Bananafish_85, Brownie5_84, FrenchFry_85, Glass_86, Godines_84, Hedgerow_84, Holeinone_84, ItsyBitsy1_81, LizLemon_84, Opia_85, Qyrzula_75, Rhinoforte_84, Rosebush_82, Sabella_84, TA17A_87, Tinciduntsum_85,

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

- Allegro_84, Boyle_84, Calamitous_85, Coffee_83, Faze9_83, Kaleb_84, Kolhan_85, Lephleur_84, LilSmirk_84, MasterPo_85, Phantasmagoria_83, PrinceCharming_84, Tres_84, West99_84,

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

- Blocker23_84, Kheth_84, Lars_85, Laurie_83, Vic9_00082,

Summary by start number:

Start 7:

- Found in 5 of 37 (13.5%) of genes in pham
- Manual Annotations of this start: 1 of 35
- Called 20.0% of time when present
- Phage (with cluster) where this start called: Kheth_84 (B2),

Start 8:

- Found in 32 of 37 (86.5%) of genes in pham
- Manual Annotations of this start: 18 of 35
- Called 56.2% of time when present
- Phage (with cluster) where this start called: Arbiter_81 (B2), Ares_84 (B2), Bananafish_85 (B2), Brownie5_84 (B2), FrenchFry_85 (B2), Glass_86 (B2), Godines_84 (B2), Hedgerow_84 (B2), Holeinone_84 (B2), ItsyBitsy1_81 (B2), LizLemon_84 (B2), Opia_85 (B2), Qyrzula_75 (B2), Rhinoforte_84 (B2), Rosebush_82 (B2), Sabella_84 (B2), TA17A_87 (B2), Tinciduntolum_85 (B2),

Start 9:

- Found in 32 of 37 (86.5%) of genes in pham
- Manual Annotations of this start: 3 of 35
- Called 12.5% of time when present
- Phage (with cluster) where this start called: LilSmirk_84 (B2), PrinceCharming_84 (B2), Tres_84 (B2), West99_84 (B2),

Start 10:

- Found in 37 of 37 (100.0%) of genes in pham
- Manual Annotations of this start: 13 of 35
- Called 37.8% of time when present
- Phage (with cluster) where this start called: Allegro_84 (B2), Blocker23_84 (B2), Boyle_84 (B2), Calamitous_85 (B2), Coffee_83 (B2), Faze9_83 (B2), Kaleb_84 (B2), Kolhan_85 (B2), Lars_85 (B2), Laurie_83 (B2), Lephleur_84 (B2), MasterPo_85 (B2), Phantasmagoria_83 (B2), Vic9_00082 (B2),

Summary by clusters:

There is one cluster represented in this pham: B2

Info for manual annotations of cluster B2:

- Start number 7 was manually annotated 1 time for cluster B2.
- Start number 8 was manually annotated 18 times for cluster B2.
- Start number 9 was manually annotated 3 times for cluster B2.
- Start number 10 was manually annotated 13 times for cluster B2.

Gene Information:

Gene: Allegro_84 Start: 63711, Stop: 63181, Start Num: 10

Candidate Starts for Allegro_84:

(6, 63888), (Start: 8 @63777 has 18 MA's), (Start: 9 @63759 has 3 MA's), (Start: 10 @63711 has 13 MA's), (11, 63684), (12, 63657), (13, 63648), (14, 63606), (15, 63597), (17, 63501), (18, 63465), (19,

63393), (20, 63297), (21, 63291), (22, 63249), (23, 63237),

Gene: Arbiter_81 Start: 63817, Stop: 63221, Start Num: 8

Candidate Starts for Arbiter_81:

(6, 63928), (Start: 8 @63817 has 18 MA's), (Start: 9 @63799 has 3 MA's), (Start: 10 @63751 has 13 MA's), (11, 63724), (12, 63697), (13, 63688), (14, 63646), (15, 63637), (17, 63541), (18, 63505), (19, 63433), (20, 63337), (21, 63331), (22, 63289), (23, 63277),

Gene: Ares_84 Start: 63776, Stop: 63180, Start Num: 8

Candidate Starts for Ares_84:

(6, 63887), (Start: 8 @63776 has 18 MA's), (Start: 9 @63758 has 3 MA's), (Start: 10 @63710 has 13 MA's), (11, 63683), (12, 63656), (13, 63647), (14, 63605), (15, 63596), (17, 63500), (18, 63464), (19, 63392), (20, 63296), (21, 63290), (22, 63248), (23, 63236),

Gene: Bananafish_85 Start: 63713, Stop: 63117, Start Num: 8

Candidate Starts for Bananafish_85:

(6, 63824), (Start: 8 @63713 has 18 MA's), (Start: 9 @63695 has 3 MA's), (Start: 10 @63647 has 13 MA's), (11, 63620), (12, 63593), (13, 63584), (14, 63542), (15, 63533), (17, 63437), (18, 63401), (19, 63329), (20, 63233), (21, 63227), (22, 63185), (23, 63173),

Gene: Blocker23_84 Start: 63711, Stop: 63181, Start Num: 10

Candidate Starts for Blocker23_84:

(1, 65055), (2, 64545), (3, 64293), (4, 64113), (5, 63984), (Start: 7 @63789 has 1 MA's), (Start: 10 @63711 has 13 MA's), (11, 63684), (12, 63657), (13, 63648), (14, 63606), (15, 63597), (17, 63501), (18, 63465), (19, 63393), (20, 63297), (21, 63291), (22, 63249), (23, 63237),

Gene: Boyle_84 Start: 63759, Stop: 63229, Start Num: 10

Candidate Starts for Boyle_84:

(6, 63936), (Start: 8 @63825 has 18 MA's), (Start: 9 @63807 has 3 MA's), (Start: 10 @63759 has 13 MA's), (11, 63732), (12, 63705), (13, 63696), (14, 63654), (15, 63645), (17, 63549), (18, 63513), (19, 63441), (20, 63345), (21, 63339), (22, 63297), (23, 63285),

Gene: Brownie5_84 Start: 63825, Stop: 63229, Start Num: 8

Candidate Starts for Brownie5_84:

(6, 63936), (Start: 8 @63825 has 18 MA's), (Start: 9 @63807 has 3 MA's), (Start: 10 @63759 has 13 MA's), (11, 63732), (12, 63705), (13, 63696), (14, 63654), (15, 63645), (17, 63549), (18, 63513), (19, 63441), (20, 63345), (21, 63339), (22, 63297), (23, 63285),

Gene: Calamitous_85 Start: 63642, Stop: 63112, Start Num: 10

Candidate Starts for Calamitous_85:

(6, 63819), (Start: 8 @63708 has 18 MA's), (Start: 9 @63690 has 3 MA's), (Start: 10 @63642 has 13 MA's), (11, 63615), (12, 63588), (13, 63579), (14, 63537), (15, 63528), (17, 63432), (18, 63396), (19, 63324), (20, 63228), (21, 63222), (22, 63180), (23, 63168),

Gene: Coffee_83 Start: 63752, Stop: 63222, Start Num: 10

Candidate Starts for Coffee_83:

(6, 63929), (Start: 8 @63818 has 18 MA's), (Start: 9 @63800 has 3 MA's), (Start: 10 @63752 has 13 MA's), (11, 63725), (12, 63698), (13, 63689), (14, 63647), (15, 63638), (17, 63542), (18, 63506), (19, 63434), (20, 63338), (21, 63332), (22, 63290), (23, 63278),

Gene: Faze9_83 Start: 63774, Stop: 63244, Start Num: 10

Candidate Starts for Faze9_83:

(6, 63951), (Start: 8 @63840 has 18 MA's), (Start: 9 @63822 has 3 MA's), (Start: 10 @63774 has 13 MA's), (11, 63747), (12, 63720), (13, 63711), (14, 63669), (15, 63660), (17, 63564), (18, 63528), (19, 63456), (20, 63360), (21, 63354), (22, 63312), (23, 63300),

Gene: FrenchFry_85 Start: 63827, Stop: 63231, Start Num: 8

Candidate Starts for FrenchFry_85:

(6, 63938), (Start: 8 @63827 has 18 MA's), (Start: 9 @63809 has 3 MA's), (Start: 10 @63761 has 13 MA's), (11, 63734), (12, 63707), (13, 63698), (14, 63656), (15, 63647), (17, 63551), (18, 63515), (19, 63443), (20, 63347), (21, 63341), (22, 63299), (23, 63287),

Gene: Glass_86 Start: 63834, Stop: 63238, Start Num: 8

Candidate Starts for Glass_86:

(6, 63945), (Start: 8 @63834 has 18 MA's), (Start: 9 @63816 has 3 MA's), (Start: 10 @63768 has 13 MA's), (11, 63741), (13, 63705), (14, 63663), (15, 63654), (17, 63558), (18, 63522), (19, 63450), (20, 63354), (21, 63348), (22, 63306), (23, 63294),

Gene: Godines_84 Start: 63740, Stop: 63144, Start Num: 8

Candidate Starts for Godines_84:

(6, 63851), (Start: 8 @63740 has 18 MA's), (Start: 9 @63722 has 3 MA's), (Start: 10 @63674 has 13 MA's), (11, 63647), (13, 63611), (14, 63569), (15, 63560), (17, 63464), (18, 63428), (19, 63356), (20, 63260), (21, 63254), (22, 63212), (23, 63200),

Gene: Hedgerow_84 Start: 63791, Stop: 63195, Start Num: 8

Candidate Starts for Hedgerow_84:

(6, 63902), (Start: 8 @63791 has 18 MA's), (Start: 9 @63773 has 3 MA's), (Start: 10 @63725 has 13 MA's), (11, 63698), (12, 63671), (13, 63662), (14, 63620), (15, 63611), (17, 63515), (18, 63479), (19, 63407), (20, 63311), (21, 63305), (22, 63263), (23, 63251),

Gene: Holeinone_84 Start: 63681, Stop: 63085, Start Num: 8

Candidate Starts for Holeinone_84:

(6, 63792), (Start: 8 @63681 has 18 MA's), (Start: 9 @63663 has 3 MA's), (Start: 10 @63615 has 13 MA's), (11, 63588), (13, 63552), (14, 63510), (15, 63501), (17, 63405), (18, 63369), (19, 63297), (20, 63201), (21, 63195), (22, 63153), (23, 63141),

Gene: ItsyBitsy1_81 Start: 63908, Stop: 63312, Start Num: 8

Candidate Starts for ItsyBitsy1_81:

(6, 64019), (Start: 8 @63908 has 18 MA's), (Start: 9 @63890 has 3 MA's), (Start: 10 @63842 has 13 MA's), (11, 63815), (13, 63779), (14, 63737), (15, 63728), (17, 63632), (18, 63596), (19, 63524), (20, 63428), (21, 63422), (22, 63380), (23, 63368),

Gene: Kaleb_84 Start: 63771, Stop: 63241, Start Num: 10

Candidate Starts for Kaleb_84:

(6, 63948), (Start: 8 @63837 has 18 MA's), (Start: 9 @63819 has 3 MA's), (Start: 10 @63771 has 13 MA's), (11, 63744), (13, 63708), (14, 63666), (15, 63657), (17, 63561), (18, 63525), (19, 63453), (20, 63357), (21, 63351), (22, 63309), (23, 63297),

Gene: Kheth_84 Start: 63754, Stop: 63146, Start Num: 7

Candidate Starts for Kheth_84:

(1, 65020), (2, 64510), (3, 64258), (4, 64078), (5, 63949), (Start: 7 @63754 has 1 MA's), (Start: 10 @63676 has 13 MA's), (11, 63649), (12, 63622), (13, 63613), (14, 63571), (15, 63562), (17, 63466), (18, 63430), (19, 63358), (20, 63262), (21, 63256), (22, 63214), (23, 63202),

Gene: Kolhan_85 Start: 63664, Stop: 63134, Start Num: 10

Candidate Starts for Kolhan_85:

(6, 63841), (Start: 8 @63730 has 18 MA's), (Start: 9 @63712 has 3 MA's), (Start: 10 @63664 has 13 MA's), (11, 63637), (12, 63610), (13, 63601), (14, 63559), (15, 63550), (17, 63454), (18, 63418), (19, 63346), (20, 63250), (21, 63244), (22, 63202), (23, 63190),

Gene: Lars_85 Start: 63740, Stop: 63210, Start Num: 10

Candidate Starts for Lars_85:

(2, 64574), (3, 64322), (4, 64142), (5, 64013), (Start: 7 @63818 has 1 MA's), (Start: 10 @63740 has 13 MA's), (11, 63713), (12, 63686), (13, 63677), (14, 63635), (15, 63626), (17, 63530), (18, 63494), (19, 63422), (20, 63326), (21, 63320), (22, 63278), (23, 63266),

Gene: Laurie_83 Start: 63078, Stop: 62548, Start Num: 10

Candidate Starts for Laurie_83:

(2, 63918), (3, 63666), (4, 63486), (5, 63357), (Start: 7 @63162 has 1 MA's), (Start: 10 @63078 has 13 MA's), (11, 63051), (12, 63024), (13, 63015), (14, 62973), (15, 62964), (17, 62868), (18, 62832), (19, 62760), (20, 62664), (21, 62658), (22, 62616), (23, 62604),

Gene: Lephleur_84 Start: 63596, Stop: 63066, Start Num: 10

Candidate Starts for Lephleur_84:

(6, 63773), (Start: 8 @63662 has 18 MA's), (Start: 9 @63644 has 3 MA's), (Start: 10 @63596 has 13 MA's), (11, 63569), (13, 63533), (14, 63491), (15, 63482), (17, 63386), (18, 63350), (19, 63278), (20, 63182), (21, 63176), (22, 63134), (23, 63122),

Gene: LilSmirk_84 Start: 63683, Stop: 63105, Start Num: 9

Candidate Starts for LilSmirk_84:

(6, 63812), (Start: 8 @63701 has 18 MA's), (Start: 9 @63683 has 3 MA's), (Start: 10 @63635 has 13 MA's), (11, 63608), (12, 63581), (13, 63572), (14, 63530), (15, 63521), (17, 63425), (18, 63389), (19, 63317), (20, 63221), (21, 63215), (22, 63173), (23, 63161),

Gene: LizLemon_84 Start: 63833, Stop: 63237, Start Num: 8

Candidate Starts for LizLemon_84:

(6, 63944), (Start: 8 @63833 has 18 MA's), (Start: 9 @63815 has 3 MA's), (Start: 10 @63767 has 13 MA's), (11, 63740), (12, 63713), (13, 63704), (14, 63662), (15, 63653), (17, 63557), (18, 63521), (19, 63449), (20, 63353), (21, 63347), (22, 63305), (23, 63293),

Gene: MasterPo_85 Start: 63636, Stop: 63106, Start Num: 10

Candidate Starts for MasterPo_85:

(6, 63813), (Start: 8 @63702 has 18 MA's), (Start: 9 @63684 has 3 MA's), (Start: 10 @63636 has 13 MA's), (11, 63609), (12, 63582), (13, 63573), (14, 63531), (15, 63522), (16, 63516), (17, 63426), (18, 63390), (19, 63318), (20, 63222), (21, 63216), (22, 63174), (23, 63162),

Gene: Opia_85 Start: 63726, Stop: 63130, Start Num: 8

Candidate Starts for Opia_85:

(6, 63837), (Start: 8 @63726 has 18 MA's), (Start: 9 @63708 has 3 MA's), (Start: 10 @63660 has 13 MA's), (11, 63633), (12, 63606), (13, 63597), (14, 63555), (15, 63546), (17, 63450), (18, 63414), (19, 63342), (20, 63246), (21, 63240), (22, 63198), (23, 63186),

Gene: Phantasmagoria_83 Start: 63643, Stop: 63113, Start Num: 10

Candidate Starts for Phantasmagoria_83:

(6, 63820), (Start: 8 @63709 has 18 MA's), (Start: 9 @63691 has 3 MA's), (Start: 10 @63643 has 13 MA's), (11, 63616), (12, 63589), (13, 63580), (14, 63538), (15, 63529), (17, 63433), (18, 63397), (19, 63325), (20, 63229), (21, 63223), (22, 63181), (23, 63169),

Gene: PrinceCharming_84 Start: 63736, Stop: 63158, Start Num: 9

Candidate Starts for PrinceCharming_84:

(6, 63865), (Start: 8 @63754 has 18 MA's), (Start: 9 @63736 has 3 MA's), (Start: 10 @63688 has 13 MA's), (11, 63661), (12, 63634), (13, 63625), (14, 63583), (15, 63574), (17, 63478), (18, 63442), (19, 63370), (20, 63274), (21, 63268), (22, 63226), (23, 63214),

Gene: Qyrzula_75 Start: 63848, Stop: 63252, Start Num: 8

Candidate Starts for Qyrzula_75:

(6, 63959), (Start: 8 @63848 has 18 MA's), (Start: 9 @63830 has 3 MA's), (Start: 10 @63782 has 13 MA's), (11, 63755), (12, 63728), (13, 63719), (14, 63677), (15, 63668), (17, 63572), (18, 63536), (19, 63464), (20, 63368), (21, 63362), (22, 63320), (23, 63308),

Gene: Rhinoforte_84 Start: 63745, Stop: 63149, Start Num: 8

Candidate Starts for Rhinoforte_84:

(6, 63856), (Start: 8 @63745 has 18 MA's), (Start: 9 @63727 has 3 MA's), (Start: 10 @63679 has 13 MA's), (11, 63652), (12, 63625), (13, 63616), (14, 63574), (15, 63565), (17, 63469), (18, 63433), (19, 63361), (20, 63265), (21, 63259), (22, 63217), (23, 63205),

Gene: Rosebush_82 Start: 63817, Stop: 63221, Start Num: 8

Candidate Starts for Rosebush_82:

(6, 63928), (Start: 8 @63817 has 18 MA's), (Start: 9 @63799 has 3 MA's), (Start: 10 @63751 has 13 MA's), (11, 63724), (13, 63688), (14, 63646), (15, 63637), (17, 63541), (18, 63505), (19, 63433), (20, 63337), (21, 63331), (22, 63289), (23, 63277),

Gene: Sabella_84 Start: 63653, Stop: 63057, Start Num: 8

Candidate Starts for Sabella_84:

(6, 63764), (Start: 8 @63653 has 18 MA's), (Start: 9 @63635 has 3 MA's), (Start: 10 @63587 has 13 MA's), (11, 63560), (12, 63533), (13, 63524), (14, 63482), (15, 63473), (17, 63377), (18, 63341), (19, 63269), (20, 63173), (21, 63167), (22, 63125), (23, 63113),

Gene: TA17A_87 Start: 63660, Stop: 63064, Start Num: 8

Candidate Starts for TA17A_87:

(6, 63771), (Start: 8 @63660 has 18 MA's), (Start: 9 @63642 has 3 MA's), (Start: 10 @63594 has 13 MA's), (11, 63567), (13, 63531), (14, 63489), (15, 63480), (17, 63384), (18, 63348), (19, 63276), (20, 63180), (21, 63174), (22, 63132), (23, 63120),

Gene: Tinciduntolum_85 Start: 63824, Stop: 63228, Start Num: 8

Candidate Starts for Tinciduntolum_85:

(6, 63935), (Start: 8 @63824 has 18 MA's), (Start: 9 @63806 has 3 MA's), (Start: 10 @63758 has 13 MA's), (11, 63731), (12, 63704), (13, 63695), (14, 63653), (15, 63644), (17, 63548), (18, 63512), (19, 63440), (20, 63344), (21, 63338), (22, 63296), (23, 63284),

Gene: Tres_84 Start: 63660, Stop: 63079, Start Num: 9

Candidate Starts for Tres_84:

(6, 63789), (Start: 8 @63678 has 18 MA's), (Start: 9 @63660 has 3 MA's), (Start: 10 @63609 has 13 MA's), (11, 63582), (12, 63555), (13, 63546), (14, 63504), (15, 63495), (17, 63399), (18, 63363), (19, 63291), (20, 63195), (21, 63189), (22, 63147), (23, 63135),

Gene: Vic9_00082 Start: 64144, Stop: 63614, Start Num: 10

Candidate Starts for Vic9_00082:

(2, 64978), (3, 64726), (4, 64546), (5, 64417), (Start: 7 @64222 has 1 MA's), (Start: 10 @64144 has 13 MA's), (11, 64117), (12, 64090), (13, 64081), (14, 64039), (15, 64030), (17, 63934), (18, 63898), (19, 63826), (20, 63730), (21, 63724), (22, 63682), (23, 63670),

Gene: West99_84 Start: 63829, Stop: 63251, Start Num: 9

Candidate Starts for West99_84:

(6, 63958), (Start: 8 @63847 has 18 MA's), (Start: 9 @63829 has 3 MA's), (Start: 10 @63781 has 13 MA's), (11, 63754), (12, 63727), (13, 63718), (14, 63676), (15, 63667), (17, 63571), (18, 63535), (19, 63463), (20, 63367), (21, 63361), (22, 63319), (23, 63307),