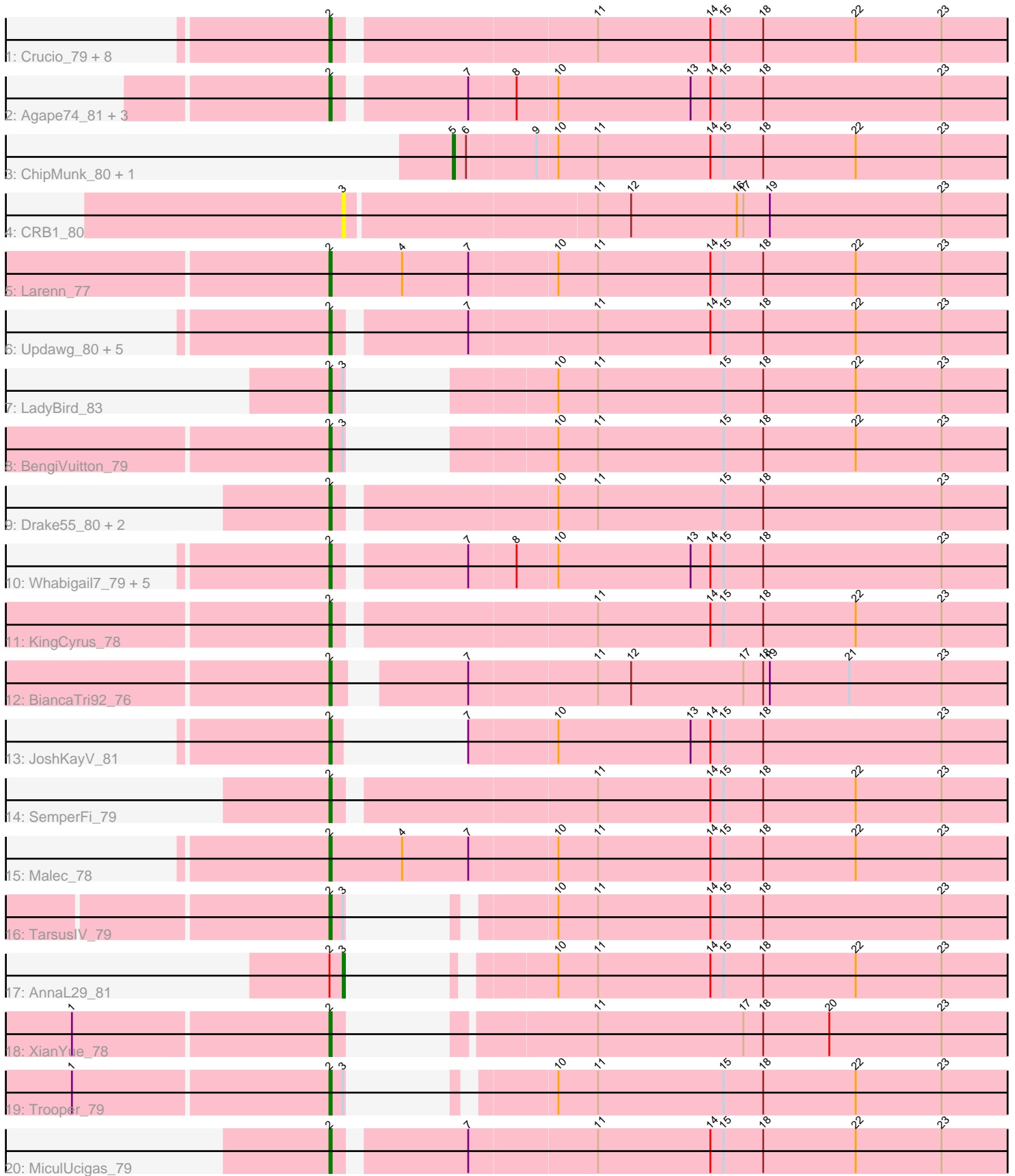


Pham 192677



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 192677 Report

This analysis was run 11/02/24 on database version 579.

Pham number 192677 has 44 members, 3 are drafts.

Phages represented in each track:

- Track 1 : Crucio_79, QueenBeesly_79, SnapTap_79, FiringLine_79, First_0080, Georgie2_81, 20ES_81, SweetiePie_79, Power_79
- Track 2 : Agape74_81, Buggy_81, LilTurb_80, Jerm_81
- Track 3 : ChipMunk_80, EvilGenius_79
- Track 4 : CRB1_80
- Track 5 : Larenn_77
- Track 6 : Updawg_80, Flare16_79, Centaur_79, WideWale_80, Baehexic_78, Equemioh13_79
- Track 7 : LadyBird_83
- Track 8 : BengiVuitton_79
- Track 9 : Drake55_80, HarryHoudini_79, Piro94_78
- Track 10 : Whabigail7_79, Smeagan_82, Leviathan_81, Turbido_80, AbbyPaige_81, Dignity_81
- Track 11 : KingCyrus_78
- Track 12 : BiancaTri92_76
- Track 13 : JoshKayV_81
- Track 14 : SemperFi_79
- Track 15 : Malec_78
- Track 16 : TarsusIV_79
- Track 17 : AnnaL29_81
- Track 18 : XianYue_78
- Track 19 : Trooper_79
- Track 20 : MiculUcigas_79

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

Genes that call this "Most Annotated" start:

- 20ES_81, AbbyPaige_81, Agape74_81, Baehexic_78, BengiVuitton_79, BiancaTri92_76, Buggy_81, Centaur_79, Crucio_79, Dignity_81, Drake55_80, Equemioh13_79, FiringLine_79, First_0080, Flare16_79, Georgie2_81, HarryHoudini_79, Jerm_81, JoshKayV_81, KingCyrus_78, LadyBird_83, Larenn_77,

Leviathan_81, LilTurb_80, Malec_78, MiculUcigas_79, Piro94_78, Power_79, QueenBeesly_79, SemperFi_79, Smeagan_82, SnapTap_79, SweetiePie_79, TarsusIV_79, Trooper_79, Turbido_80, Updawg_80, Whabigail7_79, WideWale_80, XianYue_78,

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

- AnnaL29_81,

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

- CRB1_80, ChipMunk_80, EvilGenius_79,

Summary by start number:

Start 2:

- Found in 41 of 44 (93.2%) of genes in pham
- Manual Annotations of this start: 38 of 41
- Called 97.6% of time when present
- Phage (with cluster) where this start called: 20ES_81 (A2), AbbyPaige_81 (A2), Agape74_81 (A2), Baehexic_78 (A2), BengiVuitton_79 (A2), BiancaTri92_76 (A2), Buggy_81 (A2), Centaur_79 (A2), Crucio_79 (A2), Dignity_81 (A2), Drake55_80 (A2), Equemioh13_79 (A2), FiringLine_79 (A2), First_0080 (A2), Flare16_79 (A2), Georgie2_81 (A2), HarryHoudini_79 (A2), Jerm_81 (A2), JoshKayV_81 (A2), KingCyrus_78 (A2), LadyBird_83 (A2), Larenn_77 (A2), Leviathan_81 (A2), LilTurb_80 (A2), Malec_78 (A2), MiculUcigas_79 (A2), Piro94_78 (A2), Power_79 (A2), QueenBeesly_79 (A2), SemperFi_79 (A2), Smeagan_82 (A2), SnapTap_79 (A2), SweetiePie_79 (A2), TarsusIV_79 (A2), Trooper_79 (A2), Turbido_80 (A2), Updawg_80 (A2), Whabigail7_79 (A2), WideWale_80 (A2), XianYue_78 (A2),

Start 3:

- Found in 6 of 44 (13.6%) of genes in pham
- Manual Annotations of this start: 1 of 41
- Called 33.3% of time when present
- Phage (with cluster) where this start called: AnnaL29_81 (A2), CRB1_80 (A2),

Start 5:

- Found in 2 of 44 (4.5%) 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: ChipMunk_80 (A2), EvilGenius_79 (A2),

Summary by clusters:

There is one cluster represented in this pham: A2

Info for manual annotations of cluster A2:

- Start number 2 was manually annotated 38 times for cluster A2.
- Start number 3 was manually annotated 1 time for cluster A2.
- Start number 5 was manually annotated 2 times for cluster A2.

Gene Information:

Gene: 20ES_81 Start: 46774, Stop: 46457, Start Num: 2
Candidate Starts for 20ES_81:
(Start: 2 @46774 has 38 MA's), (11, 46663), (14, 46612), (15, 46606), (18, 46588), (22, 46546), (23, 46507),

Gene: AbbyPaige_81 Start: 47049, Stop: 46729, Start Num: 2
Candidate Starts for AbbyPaige_81:
(Start: 2 @47049 has 38 MA's), (7, 46995), (8, 46974), (10, 46956), (13, 46896), (14, 46887), (15, 46881), (18, 46863), (23, 46782),

Gene: Agape74_81 Start: 47043, Stop: 46723, Start Num: 2
Candidate Starts for Agape74_81:
(Start: 2 @47043 has 38 MA's), (7, 46989), (8, 46968), (10, 46950), (13, 46890), (14, 46881), (15, 46875), (18, 46857), (23, 46776),

Gene: AnnaL29_81 Start: 47245, Stop: 46979, Start Num: 3
Candidate Starts for AnnaL29_81:
(Start: 2 @47251 has 38 MA's), (Start: 3 @47245 has 1 MA's), (10, 47206), (11, 47188), (14, 47137), (15, 47131), (18, 47113), (22, 47071), (23, 47032),

Gene: Baehexic_78 Start: 46443, Stop: 46123, Start Num: 2
Candidate Starts for Baehexic_78:
(Start: 2 @46443 has 38 MA's), (7, 46389), (11, 46332), (14, 46281), (15, 46275), (18, 46257), (22, 46215), (23, 46176),

Gene: BengiVuitton_79 Start: 46581, Stop: 46300, Start Num: 2
Candidate Starts for BengiVuitton_79:
(Start: 2 @46581 has 38 MA's), (Start: 3 @46575 has 1 MA's), (10, 46527), (11, 46509), (15, 46452), (18, 46434), (22, 46392), (23, 46353),

Gene: BiancaTri92_76 Start: 46264, Stop: 45950, Start Num: 2
Candidate Starts for BiancaTri92_76:
(Start: 2 @46264 has 38 MA's), (7, 46216), (11, 46159), (12, 46144), (17, 46093), (18, 46084), (19, 46081), (21, 46045), (23, 46003),

Gene: Buggy_81 Start: 47094, Stop: 46774, Start Num: 2
Candidate Starts for Buggy_81:
(Start: 2 @47094 has 38 MA's), (7, 47040), (8, 47019), (10, 47001), (13, 46941), (14, 46932), (15, 46926), (18, 46908), (23, 46827),

Gene: CRB1_80 Start: 47036, Stop: 46719, Start Num: 3
Candidate Starts for CRB1_80:
(Start: 3 @47036 has 1 MA's), (11, 46925), (12, 46910), (16, 46862), (17, 46859), (19, 46847), (23, 46769),

Gene: Centaur_79 Start: 46321, Stop: 46001, Start Num: 2
Candidate Starts for Centaur_79:
(Start: 2 @46321 has 38 MA's), (7, 46267), (11, 46210), (14, 46159), (15, 46153), (18, 46135), (22, 46093), (23, 46054),

Gene: ChipMunk_80 Start: 47961, Stop: 47692, Start Num: 5
Candidate Starts for ChipMunk_80:

(Start: 5 @47961 has 2 MA's), (6, 47955), (9, 47925), (10, 47916), (11, 47898), (14, 47847), (15, 47841), (18, 47823), (22, 47781), (23, 47742),

Gene: Crucio_79 Start: 46848, Stop: 46531, Start Num: 2

Candidate Starts for Crucio_79:

(Start: 2 @46848 has 38 MA's), (11, 46737), (14, 46686), (15, 46680), (18, 46662), (22, 46620), (23, 46581),

Gene: Dignity_81 Start: 47132, Stop: 46812, Start Num: 2

Candidate Starts for Dignity_81:

(Start: 2 @47132 has 38 MA's), (7, 47078), (8, 47057), (10, 47039), (13, 46979), (14, 46970), (15, 46964), (18, 46946), (23, 46865),

Gene: Drake55_80 Start: 46578, Stop: 46258, Start Num: 2

Candidate Starts for Drake55_80:

(Start: 2 @46578 has 38 MA's), (10, 46485), (11, 46467), (15, 46410), (18, 46392), (23, 46311),

Gene: Equemioh13_79 Start: 46550, Stop: 46230, Start Num: 2

Candidate Starts for Equemioh13_79:

(Start: 2 @46550 has 38 MA's), (7, 46496), (11, 46439), (14, 46388), (15, 46382), (18, 46364), (22, 46322), (23, 46283),

Gene: EvilGenius_79 Start: 47962, Stop: 47693, Start Num: 5

Candidate Starts for EvilGenius_79:

(Start: 5 @47962 has 2 MA's), (6, 47956), (9, 47926), (10, 47917), (11, 47899), (14, 47848), (15, 47842), (18, 47824), (22, 47782), (23, 47743),

Gene: FiringLine_79 Start: 46830, Stop: 46513, Start Num: 2

Candidate Starts for FiringLine_79:

(Start: 2 @46830 has 38 MA's), (11, 46719), (14, 46668), (15, 46662), (18, 46644), (22, 46602), (23, 46563),

Gene: First_0080 Start: 46674, Stop: 46357, Start Num: 2

Candidate Starts for First_0080:

(Start: 2 @46674 has 38 MA's), (11, 46563), (14, 46512), (15, 46506), (18, 46488), (22, 46446), (23, 46407),

Gene: Flare16_79 Start: 46365, Stop: 46045, Start Num: 2

Candidate Starts for Flare16_79:

(Start: 2 @46365 has 38 MA's), (7, 46311), (11, 46254), (14, 46203), (15, 46197), (18, 46179), (22, 46137), (23, 46098),

Gene: Georgie2_81 Start: 47034, Stop: 46717, Start Num: 2

Candidate Starts for Georgie2_81:

(Start: 2 @47034 has 38 MA's), (11, 46923), (14, 46872), (15, 46866), (18, 46848), (22, 46806), (23, 46767),

Gene: HarryHoudini_79 Start: 46575, Stop: 46255, Start Num: 2

Candidate Starts for HarryHoudini_79:

(Start: 2 @46575 has 38 MA's), (10, 46482), (11, 46464), (15, 46407), (18, 46389), (23, 46308),

Gene: Jerm_81 Start: 47115, Stop: 46795, Start Num: 2

Candidate Starts for Jerm_81:

(Start: 2 @47115 has 38 MA's), (7, 47061), (8, 47040), (10, 47022), (13, 46962), (14, 46953), (15, 46947), (18, 46929), (23, 46848),

Gene: JoshKayV_81 Start: 47259, Stop: 46987, Start Num: 2

Candidate Starts for JoshKayV_81:

(Start: 2 @47259 has 38 MA's), (7, 47253), (10, 47214), (13, 47154), (14, 47145), (15, 47139), (18, 47121), (23, 47040),

Gene: KingCyrus_78 Start: 47984, Stop: 47667, Start Num: 2

Candidate Starts for KingCyrus_78:

(Start: 2 @47984 has 38 MA's), (11, 47873), (14, 47822), (15, 47816), (18, 47798), (22, 47756), (23, 47717),

Gene: LadyBird_83 Start: 47185, Stop: 46904, Start Num: 2

Candidate Starts for LadyBird_83:

(Start: 2 @47185 has 38 MA's), (Start: 3 @47179 has 1 MA's), (10, 47131), (11, 47113), (15, 47056), (18, 47038), (22, 46996), (23, 46957),

Gene: Larenn_77 Start: 46535, Stop: 46206, Start Num: 2

Candidate Starts for Larenn_77:

(Start: 2 @46535 has 38 MA's), (4, 46502), (7, 46472), (10, 46433), (11, 46415), (14, 46364), (15, 46358), (18, 46340), (22, 46298), (23, 46259),

Gene: Leviathan_81 Start: 47181, Stop: 46861, Start Num: 2

Candidate Starts for Leviathan_81:

(Start: 2 @47181 has 38 MA's), (7, 47127), (8, 47106), (10, 47088), (13, 47028), (14, 47019), (15, 47013), (18, 46995), (23, 46914),

Gene: LilTurb_80 Start: 46995, Stop: 46675, Start Num: 2

Candidate Starts for LilTurb_80:

(Start: 2 @46995 has 38 MA's), (7, 46941), (8, 46920), (10, 46902), (13, 46842), (14, 46833), (15, 46827), (18, 46809), (23, 46728),

Gene: Malec_78 Start: 47105, Stop: 46776, Start Num: 2

Candidate Starts for Malec_78:

(Start: 2 @47105 has 38 MA's), (4, 47072), (7, 47042), (10, 47003), (11, 46985), (14, 46934), (15, 46928), (18, 46910), (22, 46868), (23, 46829),

Gene: MiculUcigas_79 Start: 46268, Stop: 45948, Start Num: 2

Candidate Starts for MiculUcigas_79:

(Start: 2 @46268 has 38 MA's), (7, 46214), (11, 46157), (14, 46106), (15, 46100), (18, 46082), (22, 46040), (23, 46001),

Gene: Piro94_78 Start: 46509, Stop: 46189, Start Num: 2

Candidate Starts for Piro94_78:

(Start: 2 @46509 has 38 MA's), (10, 46416), (11, 46398), (15, 46341), (18, 46323), (23, 46242),

Gene: Power_79 Start: 47033, Stop: 46716, Start Num: 2

Candidate Starts for Power_79:

(Start: 2 @47033 has 38 MA's), (11, 46922), (14, 46871), (15, 46865), (18, 46847), (22, 46805), (23, 46766),

Gene: QueenBeesly_79 Start: 46830, Stop: 46513, Start Num: 2

Candidate Starts for QueenBeesly_79:

(Start: 2 @46830 has 38 MA's), (11, 46719), (14, 46668), (15, 46662), (18, 46644), (22, 46602), (23, 46563),

Gene: SemperFi_79 Start: 46718, Stop: 46401, Start Num: 2

Candidate Starts for SemperFi_79:

(Start: 2 @46718 has 38 MA's), (11, 46607), (14, 46556), (15, 46550), (18, 46532), (22, 46490), (23, 46451),

Gene: Smeagan_82 Start: 47272, Stop: 46952, Start Num: 2

Candidate Starts for Smeagan_82:

(Start: 2 @47272 has 38 MA's), (7, 47218), (8, 47197), (10, 47179), (13, 47119), (14, 47110), (15, 47104), (18, 47086), (23, 47005),

Gene: SnapTap_79 Start: 46689, Stop: 46372, Start Num: 2

Candidate Starts for SnapTap_79:

(Start: 2 @46689 has 38 MA's), (11, 46578), (14, 46527), (15, 46521), (18, 46503), (22, 46461), (23, 46422),

Gene: SweetiePie_79 Start: 46821, Stop: 46504, Start Num: 2

Candidate Starts for SweetiePie_79:

(Start: 2 @46821 has 38 MA's), (11, 46710), (14, 46659), (15, 46653), (18, 46635), (22, 46593), (23, 46554),

Gene: TarsusIV_79 Start: 46873, Stop: 46601, Start Num: 2

Candidate Starts for TarsusIV_79:

(Start: 2 @46873 has 38 MA's), (Start: 3 @46867 has 1 MA's), (10, 46828), (11, 46810), (14, 46759), (15, 46753), (18, 46735), (23, 46654),

Gene: Trooper_79 Start: 46430, Stop: 46158, Start Num: 2

Candidate Starts for Trooper_79:

(1, 46544), (Start: 2 @46430 has 38 MA's), (Start: 3 @46424 has 1 MA's), (10, 46385), (11, 46367), (15, 46310), (18, 46292), (22, 46250), (23, 46211),

Gene: Turbido_80 Start: 46993, Stop: 46673, Start Num: 2

Candidate Starts for Turbido_80:

(Start: 2 @46993 has 38 MA's), (7, 46939), (8, 46918), (10, 46900), (13, 46840), (14, 46831), (15, 46825), (18, 46807), (23, 46726),

Gene: Updawg_80 Start: 46550, Stop: 46230, Start Num: 2

Candidate Starts for Updawg_80:

(Start: 2 @46550 has 38 MA's), (7, 46496), (11, 46439), (14, 46388), (15, 46382), (18, 46364), (22, 46322), (23, 46283),

Gene: Whabigail7_79 Start: 46991, Stop: 46671, Start Num: 2

Candidate Starts for Whabigail7_79:

(Start: 2 @46991 has 38 MA's), (7, 46937), (8, 46916), (10, 46898), (13, 46838), (14, 46829), (15, 46823), (18, 46805), (23, 46724),

Gene: WideWale_80 Start: 46550, Stop: 46230, Start Num: 2

Candidate Starts for WideWale_80:

(Start: 2 @46550 has 38 MA's), (7, 46496), (11, 46439), (14, 46388), (15, 46382), (18, 46364), (22, 46322), (23, 46283),

Gene: XianYue_78 Start: 46882, Stop: 46607, Start Num: 2

Candidate Starts for XianYue_78:

(1, 46996), (Start: 2 @46882 has 38 MA's), (11, 46813), (17, 46747), (18, 46738), (20, 46708), (23, 46657),