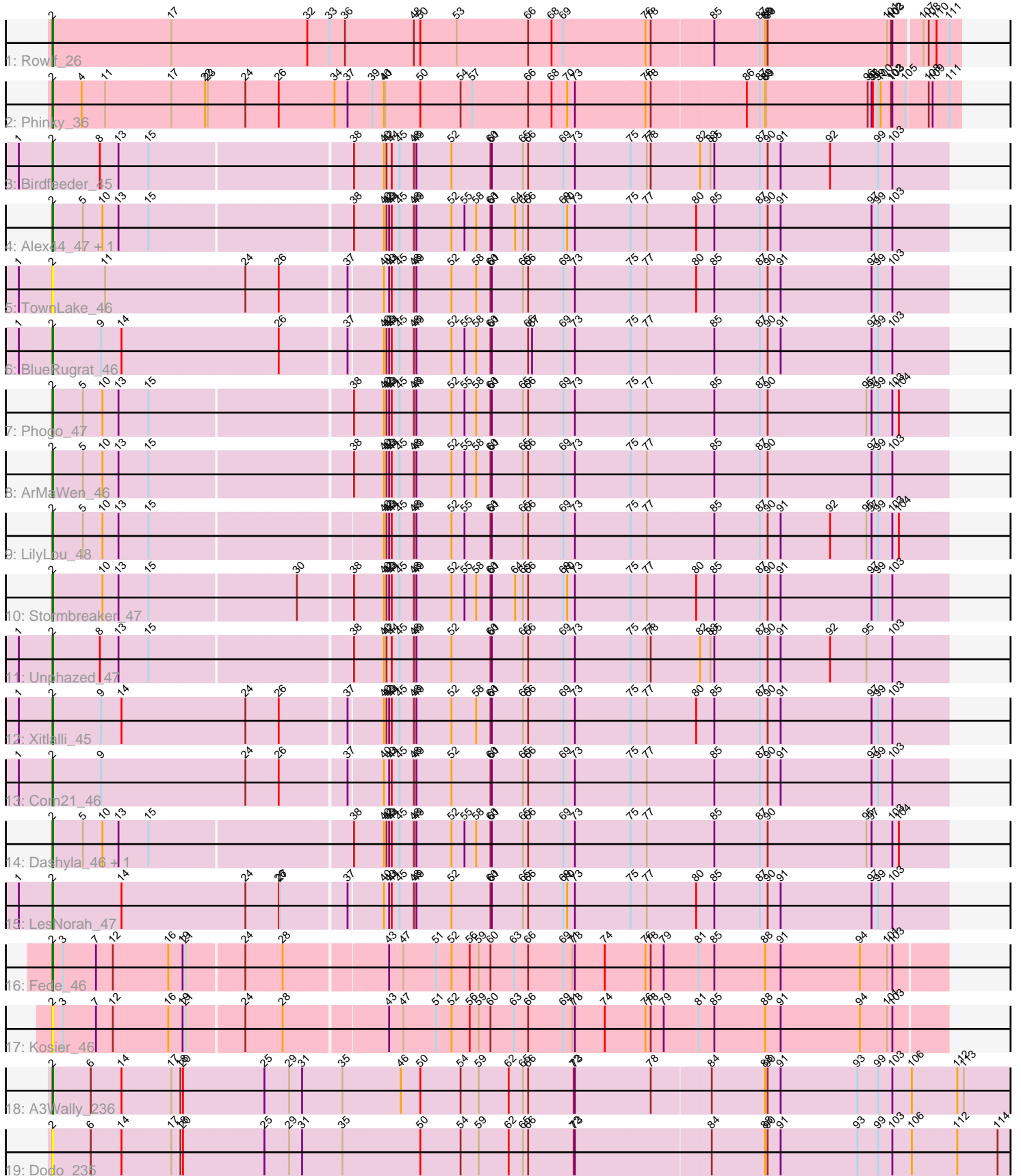


Pham 224890



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 224890 Report

This analysis was run 03/28/25 on database version 593.

Pham number 224890 has 21 members, 4 are drafts.

Phages represented in each track:

- Track 1 : Rowlf\_26
- Track 2 : Phinky\_36
- Track 3 : Birdfeeder\_45
- Track 4 : Alex44\_47, DumpQuist\_46
- Track 5 : TownLake\_46
- Track 6 : BlueRugrat\_46
- Track 7 : Phogo\_47
- Track 8 : ArMaWen\_46
- Track 9 : LilyLou\_48
- Track 10 : Stormbreaker\_47
- Track 11 : Unphazed\_47
- Track 12 : Xitlalli\_45
- Track 13 : Corn21\_46
- Track 14 : Dashyla\_46, SwissCheezer\_47
- Track 15 : LesNorah\_47
- Track 16 : Fede\_46
- Track 17 : Kosier\_46
- Track 18 : A3Wally\_236
- Track 19 : Dodo\_235

### ***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 17 of the 17 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- A3Wally\_236, Alex44\_47, ArMaWen\_46, Birdfeeder\_45, BlueRugrat\_46, Corn21\_46, Dashyla\_46, Dodo\_235, DumpQuist\_46, Fede\_46, Kosier\_46, LesNorah\_47, LilyLou\_48, Phinky\_36, Phogo\_47, Rowlf\_26, Stormbreaker\_47, SwissCheezer\_47, TownLake\_46, Unphazed\_47, Xitlalli\_45,

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 21 of 21 ( 100.0% ) of genes in pham
- Manual Annotations of this start: 17 of 17
- Called 100.0% of time when present
- Phage (with cluster) where this start called: A3Wally\_236 (GD1), Alex44\_47 (EK1), ArMaWen\_46 (EK1), Birdfeeder\_45 (EK1), BlueRugrat\_46 (EK1), Corn21\_46 (EK1), Dashyla\_46 (EK1), Dodo\_235 (GD1), DumpQuist\_46 (EK1), Fede\_46 (EK2), Kosier\_46 (EK2), LesNorah\_47 (EK1), LilyLou\_48 (EK1), Phinky\_36 (EG), Phogo\_47 (EK1), Rowlf\_26 (EG), Stormbreaker\_47 (EK1), SwissCheezer\_47 (EK1), TownLake\_46 (EK1), Unphazed\_47 (EK1), Xitlalli\_45 (EK1),

### Summary by clusters:

There are 4 clusters represented in this pham: GD1, EG, EK2, EK1,

Info for manual annotations of cluster EG:

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

Info for manual annotations of cluster EK1:

- Start number 2 was manually annotated 13 times for cluster EK1.

Info for manual annotations of cluster EK2:

- Start number 2 was manually annotated 1 time for cluster EK2.

Info for manual annotations of cluster GD1:

- Start number 2 was manually annotated 1 time for cluster GD1.

### Gene Information:

Gene: A3Wally\_236 Start: 126651, Stop: 128846, Start Num: 2

Candidate Starts for A3Wally\_236:

(Start: 2 @126651 has 17 MA's), (6, 126735), (14, 126801), (17, 126912), (18, 126933), (20, 126939), (25, 127122), (29, 127179), (31, 127209), (35, 127302), (46, 127434), (50, 127479), (54, 127572), (59, 127614), (62, 127683), (65, 127716), (66, 127728), (72, 127833), (73, 127836), (78, 128010), (84, 128139), (88, 128262), (90, 128268), (91, 128298), (93, 128475), (99, 128523), (103, 128556), (106, 128601), (112, 128700), (113, 128715),

Gene: Alex44\_47 Start: 46450, Stop: 48459, Start Num: 2

Candidate Starts for Alex44\_47:

(Start: 2 @46450 has 17 MA's), (5, 46519), (10, 46564), (13, 46600), (15, 46669), (38, 47095), (40, 47164), (42, 47170), (43, 47176), (44, 47182), (45, 47200), (48, 47233), (49, 47239), (52, 47320), (55, 47350), (58, 47377), (60, 47410), (61, 47413), (64, 47467), (65, 47485), (66, 47497), (69, 47578), (70, 47587), (73, 47605), (75, 47734), (77, 47770), (80, 47881), (85, 47923), (87, 48028), (90, 48046), (91, 48076), (97, 48286), (99, 48301), (103, 48334),

Gene: ArMaWen\_46 Start: 45993, Stop: 48002, Start Num: 2

Candidate Starts for ArMaWen\_46:

(Start: 2 @45993 has 17 MA's), (5, 46062), (10, 46107), (13, 46143), (15, 46212), (38, 46638), (40, 46707), (42, 46713), (43, 46719), (44, 46725), (45, 46743), (48, 46776), (49, 46782), (52, 46863), (55, 46893), (58, 46920), (60, 46953), (61, 46956), (65, 47028), (66, 47040), (69, 47121), (73, 47148), (75, 47277), (77, 47313), (85, 47466), (87, 47571), (90, 47589), (97, 47829), (99, 47844), (103, 47877),

Gene: Birdfeeder\_45 Start: 46199, Stop: 48208, Start Num: 2

Candidate Starts for Birdfeeder\_45:

(1, 46121), (Start: 2 @46199 has 17 MA's), (8, 46307), (13, 46349), (15, 46418), (38, 46844), (40, 46913), (42, 46919), (44, 46931), (45, 46949), (48, 46982), (49, 46988), (52, 47069), (60, 47159), (61, 47162), (65, 47234), (66, 47246), (69, 47327), (73, 47354), (75, 47483), (77, 47519), (78, 47528), (82, 47639), (83, 47663), (85, 47672), (87, 47777), (90, 47795), (91, 47825), (92, 47939), (99, 48050), (103, 48083),

Gene: BlueRugrat\_46 Start: 46423, Stop: 48441, Start Num: 2

Candidate Starts for BlueRugrat\_46:

(1, 46345), (Start: 2 @46423 has 17 MA's), (9, 46528), (14, 46570), (26, 46924), (37, 47071), (40, 47146), (42, 47152), (43, 47158), (44, 47164), (45, 47182), (48, 47215), (49, 47221), (52, 47302), (55, 47332), (58, 47359), (60, 47392), (61, 47395), (66, 47479), (67, 47488), (69, 47560), (73, 47587), (75, 47716), (77, 47752), (85, 47905), (87, 48010), (90, 48028), (91, 48058), (97, 48268), (99, 48283), (103, 48316),

Gene: Corn21\_46 Start: 46501, Stop: 48519, Start Num: 2

Candidate Starts for Corn21\_46:

(1, 46423), (Start: 2 @46501 has 17 MA's), (9, 46606), (24, 46927), (26, 47002), (37, 47149), (40, 47224), (43, 47236), (44, 47242), (45, 47260), (48, 47293), (49, 47299), (52, 47380), (60, 47470), (61, 47473), (65, 47545), (66, 47557), (69, 47638), (73, 47665), (75, 47794), (77, 47830), (85, 47983), (87, 48088), (90, 48106), (91, 48136), (97, 48346), (99, 48361), (103, 48394),

Gene: Dashyla\_46 Start: 46124, Stop: 48133, Start Num: 2

Candidate Starts for Dashyla\_46:

(Start: 2 @46124 has 17 MA's), (5, 46193), (10, 46238), (13, 46274), (15, 46343), (38, 46769), (40, 46838), (42, 46844), (43, 46850), (44, 46856), (45, 46874), (48, 46907), (49, 46913), (52, 46994), (55, 47024), (58, 47051), (60, 47084), (61, 47087), (65, 47159), (66, 47171), (69, 47252), (73, 47279), (75, 47408), (77, 47444), (85, 47597), (87, 47702), (90, 47720), (95, 47948), (97, 47960), (103, 48008), (104, 48023),

Gene: Dodo\_235 Start: 126453, Stop: 128636, Start Num: 2

Candidate Starts for Dodo\_235:

(Start: 2 @126453 has 17 MA's), (6, 126537), (14, 126603), (17, 126714), (18, 126735), (20, 126741), (25, 126924), (29, 126981), (31, 127011), (35, 127104), (50, 127281), (54, 127374), (59, 127416), (62, 127485), (65, 127518), (66, 127530), (72, 127635), (73, 127638), (84, 127941), (88, 128064), (90, 128070), (91, 128100), (93, 128277), (99, 128325), (103, 128358), (106, 128403), (112, 128502), (114, 128595),

Gene: DumpQuist\_46 Start: 45978, Stop: 47987, Start Num: 2

Candidate Starts for DumpQuist\_46:

(Start: 2 @45978 has 17 MA's), (5, 46047), (10, 46092), (13, 46128), (15, 46197), (38, 46623), (40, 46692), (42, 46698), (43, 46704), (44, 46710), (45, 46728), (48, 46761), (49, 46767), (52, 46848), (55, 46878), (58, 46905), (60, 46938), (61, 46941), (64, 46995), (65, 47013), (66, 47025), (69, 47106), (70, 47115), (73, 47133), (75, 47262), (77, 47298), (80, 47409), (85, 47451), (87, 47556), (90, 47574), (91, 47604), (97, 47814), (99, 47829), (103, 47862),

Gene: Fede\_46 Start: 46938, Stop: 48926, Start Num: 2

Candidate Starts for Fede\_46:

(Start: 2 @46938 has 17 MA's), (3, 46959), (7, 47034), (12, 47073), (16, 47196), (19, 47229), (21, 47235), (24, 47358), (28, 47439), (43, 47655), (47, 47688), (51, 47763), (52, 47799), (56, 47841), (59, 47862), (60, 47889), (63, 47943), (66, 47976), (69, 48057), (71, 48078), (73, 48084), (74, 48153), (76, 48246), (78, 48258), (79, 48288), (81, 48369), (85, 48399), (88, 48516), (91, 48552), (94, 48735), (101, 48798), (103, 48810),

Gene: Kosier\_46 Start: 46882, Stop: 48870, Start Num: 2

Candidate Starts for Kosier\_46:

(Start: 2 @46882 has 17 MA's), (3, 46903), (7, 46978), (12, 47017), (16, 47140), (19, 47173), (21, 47179), (24, 47302), (28, 47383), (43, 47599), (47, 47632), (51, 47707), (52, 47743), (56, 47785), (59, 47806), (60, 47833), (63, 47887), (66, 47920), (69, 48001), (71, 48022), (73, 48028), (74, 48097), (76, 48190), (78, 48202), (79, 48232), (81, 48313), (85, 48343), (88, 48460), (91, 48496), (94, 48679), (101, 48742), (103, 48754),

Gene: LesNorah\_47 Start: 46820, Stop: 48838, Start Num: 2

Candidate Starts for LesNorah\_47:

(1, 46742), (Start: 2 @46820 has 17 MA's), (14, 46967), (24, 47246), (26, 47321), (27, 47324), (37, 47468), (40, 47543), (43, 47555), (44, 47561), (45, 47579), (48, 47612), (49, 47618), (52, 47699), (60, 47789), (61, 47792), (65, 47864), (66, 47876), (69, 47957), (70, 47966), (73, 47984), (75, 48113), (77, 48149), (80, 48260), (85, 48302), (87, 48407), (90, 48425), (91, 48455), (97, 48665), (99, 48680), (103, 48713),

Gene: LilyLou\_48 Start: 46442, Stop: 48451, Start Num: 2

Candidate Starts for LilyLou\_48:

(Start: 2 @46442 has 17 MA's), (5, 46511), (10, 46556), (13, 46592), (15, 46661), (40, 47156), (42, 47162), (43, 47168), (44, 47174), (45, 47192), (48, 47225), (49, 47231), (52, 47312), (55, 47342), (60, 47402), (61, 47405), (65, 47477), (66, 47489), (69, 47570), (73, 47597), (75, 47726), (77, 47762), (85, 47915), (87, 48020), (90, 48038), (91, 48068), (92, 48182), (95, 48266), (97, 48278), (99, 48293), (103, 48326), (104, 48341),

Gene: Phinky\_36 Start: 19775, Stop: 21835, Start Num: 2

Candidate Starts for Phinky\_36:

(Start: 2 @19775 has 17 MA's), (4, 19838), (11, 19889), (17, 20036), (22, 20114), (23, 20120), (24, 20204), (26, 20279), (34, 20408), (37, 20438), (39, 20495), (40, 20522), (41, 20525), (50, 20606), (54, 20699), (57, 20726), (66, 20855), (68, 20909), (70, 20945), (73, 20963), (76, 21125), (78, 21137), (86, 21347), (87, 21377), (88, 21389), (89, 21392), (96, 21626), (97, 21635), (98, 21638), (99, 21650), (100, 21656), (102, 21680), (103, 21683), (105, 21713), (108, 21761), (109, 21770), (111, 21809),

Gene: Phogo\_47 Start: 46270, Stop: 48279, Start Num: 2

Candidate Starts for Phogo\_47:

(Start: 2 @46270 has 17 MA's), (5, 46339), (10, 46384), (13, 46420), (15, 46489), (38, 46915), (40, 46984), (42, 46990), (43, 46996), (44, 47002), (45, 47020), (48, 47053), (49, 47059), (52, 47140), (55, 47170), (58, 47197), (60, 47230), (61, 47233), (65, 47305), (66, 47317), (69, 47398), (73, 47425), (75, 47554), (77, 47590), (85, 47743), (87, 47848), (90, 47866), (95, 48094), (97, 48106), (99, 48121), (103, 48154), (104, 48169),

Gene: Rowlf\_26 Start: 18355, Stop: 20409, Start Num: 2

Candidate Starts for Rowlf\_26:

(Start: 2 @18355 has 17 MA's), (17, 18616), (32, 18925), (33, 18976), (36, 19012), (48, 19171), (50, 19186), (53, 19270), (66, 19435), (68, 19489), (69, 19516), (76, 19705), (78, 19717), (85, 19852), (87, 19957), (88, 19969), (89, 19972), (90, 19975), (101, 20251), (102, 20260), (103, 20263), (107, 20323),

(108, 20335), (110, 20353), (111, 20383),

Gene: Stormbreaker\_47 Start: 46358, Stop: 48367, Start Num: 2

Candidate Starts for Stormbreaker\_47:

(Start: 2 @46358 has 17 MA's), (10, 46472), (13, 46508), (15, 46577), (30, 46895), (38, 47003), (40, 47072), (42, 47078), (43, 47084), (44, 47090), (45, 47108), (48, 47141), (49, 47147), (52, 47228), (55, 47258), (58, 47285), (60, 47318), (61, 47321), (64, 47375), (65, 47393), (66, 47405), (69, 47486), (70, 47495), (73, 47513), (75, 47642), (77, 47678), (80, 47789), (85, 47831), (87, 47936), (90, 47954), (91, 47984), (97, 48194), (99, 48209), (103, 48242),

Gene: SwissCheezer\_47 Start: 46010, Stop: 48019, Start Num: 2

Candidate Starts for SwissCheezer\_47:

(Start: 2 @46010 has 17 MA's), (5, 46079), (10, 46124), (13, 46160), (15, 46229), (38, 46655), (40, 46724), (42, 46730), (43, 46736), (44, 46742), (45, 46760), (48, 46793), (49, 46799), (52, 46880), (55, 46910), (58, 46937), (60, 46970), (61, 46973), (65, 47045), (66, 47057), (69, 47138), (73, 47165), (75, 47294), (77, 47330), (85, 47483), (87, 47588), (90, 47606), (95, 47834), (97, 47846), (103, 47894), (104, 47909),

Gene: TownLake\_46 Start: 46110, Stop: 48128, Start Num: 2

Candidate Starts for TownLake\_46:

(1, 46032), (Start: 2 @46110 has 17 MA's), (11, 46221), (24, 46536), (26, 46611), (37, 46758), (40, 46833), (43, 46845), (44, 46851), (45, 46869), (48, 46902), (49, 46908), (52, 46989), (58, 47046), (60, 47079), (61, 47082), (65, 47154), (66, 47166), (69, 47247), (73, 47274), (75, 47403), (77, 47439), (80, 47550), (85, 47592), (87, 47697), (90, 47715), (91, 47745), (97, 47955), (99, 47970), (103, 48003),

Gene: Unphazed\_47 Start: 46227, Stop: 48236, Start Num: 2

Candidate Starts for Unphazed\_47:

(1, 46149), (Start: 2 @46227 has 17 MA's), (8, 46335), (13, 46377), (15, 46446), (38, 46872), (40, 46941), (42, 46947), (44, 46959), (45, 46977), (48, 47010), (49, 47016), (52, 47097), (60, 47187), (61, 47190), (65, 47262), (66, 47274), (69, 47355), (73, 47382), (75, 47511), (77, 47547), (78, 47556), (82, 47667), (83, 47691), (85, 47700), (87, 47805), (90, 47823), (91, 47853), (92, 47967), (95, 48051), (103, 48111),

Gene: Xitlalli\_45 Start: 46228, Stop: 48246, Start Num: 2

Candidate Starts for Xitlalli\_45:

(1, 46150), (Start: 2 @46228 has 17 MA's), (9, 46333), (14, 46375), (24, 46654), (26, 46729), (37, 46876), (40, 46951), (42, 46957), (43, 46963), (44, 46969), (45, 46987), (48, 47020), (49, 47026), (52, 47107), (58, 47164), (60, 47197), (61, 47200), (65, 47272), (66, 47284), (69, 47365), (73, 47392), (75, 47521), (77, 47557), (80, 47668), (85, 47710), (87, 47815), (90, 47833), (91, 47863), (97, 48073), (99, 48088), (103, 48121),