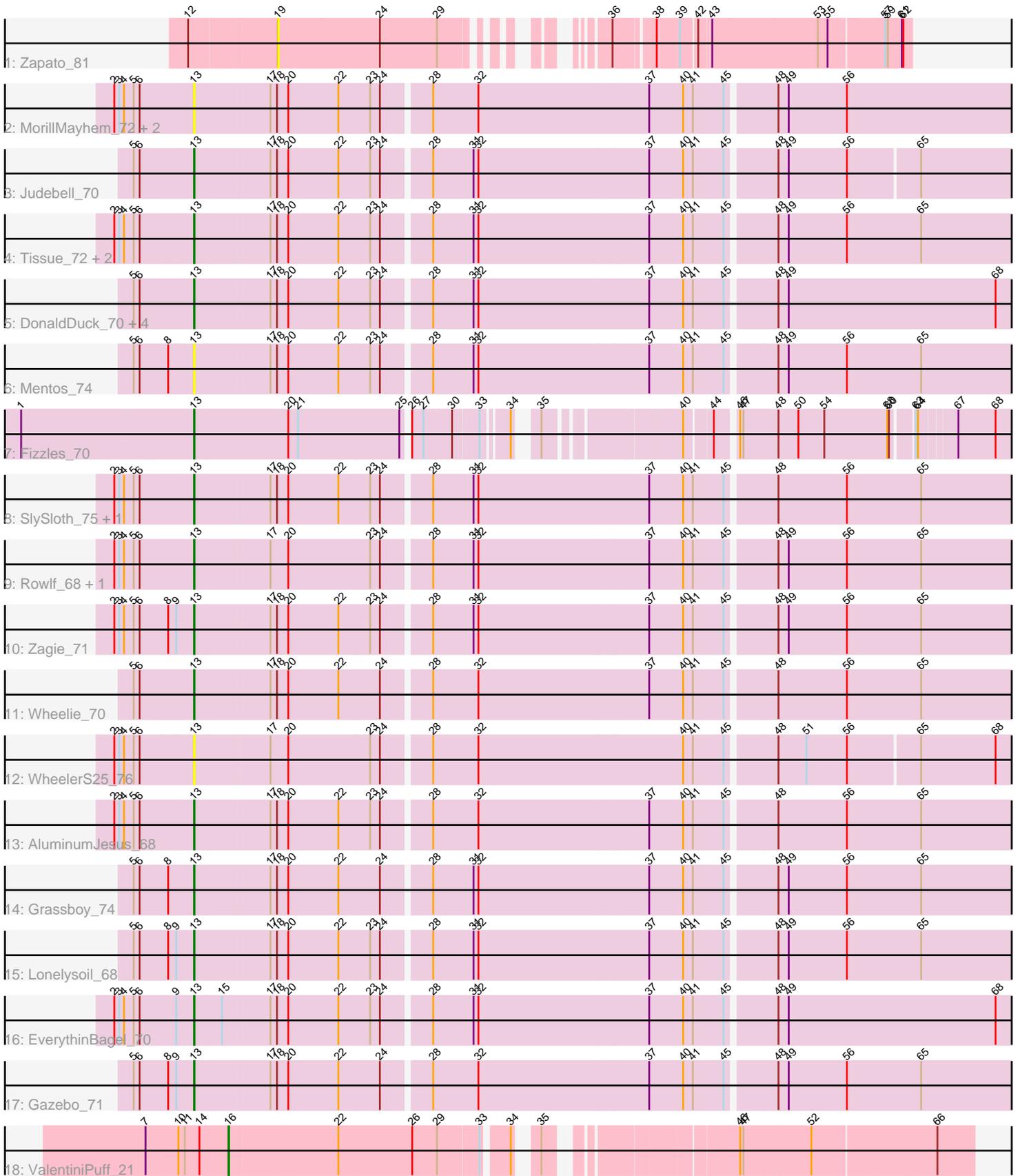


Pham 284089



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 284089 Report

This analysis was run 02/23/26 on database version 636.

Pham number 284089 has 28 members, 7 are drafts.

Phages represented in each track:

- Track 1 : Zapato_81
- Track 2 : MorillMayhem_72, BaconCheese_76, Mila11_74
- Track 3 : Judebell_70
- Track 4 : Tissue_72, SallyK_73, Kyva_74
- Track 5 : DonaldDuck_70, Llemily_70, Viceroy_69, Zhafia_73, Sillytadpoles_71
- Track 6 : Mentos_74
- Track 7 : Fizzles_70
- Track 8 : SlySloth_75, FrankDeliGuy_67
- Track 9 : Rowlf_68, Statler_74
- Track 10 : Zagie_71
- Track 11 : Wheelie_70
- Track 12 : WheelerS25_76
- Track 13 : AluminumJesus_68
- Track 14 : Grassboy_74
- Track 15 : Lonelysoil_68
- Track 16 : EverythinBagel_70
- Track 17 : Gazebo_71
- Track 18 : ValentiniPuff_21

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

The start number called the most often in the published annotations is 13, it was called in 20 of the 21 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- AluminumJesus_68, BaconCheese_76, DonaldDuck_70, EverythinBagel_70, Fizzles_70, FrankDeliGuy_67, Gazebo_71, Grassboy_74, Judebell_70, Kyva_74, Llemily_70, Lonelysoil_68, Mentos_74, Mila11_74, MorillMayhem_72, Rowlf_68, SallyK_73, Sillytadpoles_71, SlySloth_75, Statler_74, Tissue_72, Viceroy_69, WheelerS25_76, Wheelie_70, Zagie_71, Zhafia_73,

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

-

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

- ValentiniPuff_21, Zapato_81,

Summary by start number:

Start 13:

- Found in 26 of 28 (92.9%) of genes in pham
- Manual Annotations of this start: 20 of 21
- Called 100.0% of time when present
- Phage (with cluster) where this start called: AluminumJesus_68 (EG), BaconCheese_76 (EG), DonaldDuck_70 (EG), EverythinBagel_70 (EG), Fizzles_70 (EG), FrankDeliGuy_67 (EG), Gazebo_71 (EG), Grassboy_74 (EG), Judebell_70 (EG), Kyva_74 (EG), Llemily_70 (EG), Lonelysoil_68 (EG), Mentos_74 (EG), Mila11_74 (EG), MorillMayhem_72 (EG), Rowlf_68 (EG), SallyK_73 (EG), Sillytadpoles_71 (EG), SlySloth_75 (EG), Statler_74 (EG), Tissue_72 (EG), Viceroy_69 (EG), WheelerS25_76 (EG), Wheelie_70 (EG), Zagie_71 (EG), Zhafia_73 (EG),

Start 16:

- Found in 1 of 28 (3.6%) of genes in pham
- Manual Annotations of this start: 1 of 21
- Called 100.0% of time when present
- Phage (with cluster) where this start called: ValentiniPuff_21 (GL),

Start 19:

- Found in 1 of 28 (3.6%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Zapato_81 (EC),

Summary by clusters:

There are 3 clusters represented in this pham: EG, GL, EC,

Info for manual annotations of cluster EG:

- Start number 13 was manually annotated 20 times for cluster EG.

Info for manual annotations of cluster GL:

- Start number 16 was manually annotated 1 time for cluster GL.

Gene Information:

Gene: AluminumJesus_68 Start: 49210, Stop: 47717, Start Num: 13

Candidate Starts for AluminumJesus_68:

(2, 49351), (3, 49342), (4, 49333), (5, 49315), (6, 49306), (Start: 13 @49210 has 20 MA's), (17, 49072), (18, 49060), (20, 49039), (22, 48946), (23, 48889), (24, 48871), (28, 48787), (32, 48703), (37, 48388), (40, 48325), (41, 48307), (45, 48250), (48, 48166), (56, 48040), (65, 47902),

Gene: BaconCheese_76 Start: 51370, Stop: 49877, Start Num: 13

Candidate Starts for BaconCheese_76:

(2, 51511), (3, 51502), (4, 51493), (5, 51475), (6, 51466), (Start: 13 @51370 has 20 MA's), (17, 51232), (18, 51220), (20, 51199), (22, 51106), (23, 51049), (24, 51031), (28, 50947), (32, 50863), (37, 50548), (40, 50485), (41, 50467), (45, 50410), (48, 50326), (49, 50308), (56, 50200),

Gene: DonaldDuck_70 Start: 49347, Stop: 47854, Start Num: 13

Candidate Starts for DonaldDuck_70:

(5, 49452), (6, 49443), (Start: 13 @49347 has 20 MA's), (17, 49209), (18, 49197), (20, 49176), (22, 49083), (23, 49026), (24, 49008), (28, 48924), (31, 48849), (32, 48840), (37, 48525), (40, 48462), (41, 48444), (45, 48387), (48, 48303), (49, 48285), (68, 47901),

Gene: EverythinBagel_70 Start: 49828, Stop: 48335, Start Num: 13

Candidate Starts for EverythinBagel_70:

(2, 49972), (3, 49963), (4, 49954), (5, 49936), (6, 49927), (9, 49861), (Start: 13 @49828 has 20 MA's), (15, 49777), (17, 49690), (18, 49678), (20, 49657), (22, 49564), (23, 49507), (24, 49489), (28, 49405), (31, 49330), (32, 49321), (37, 49006), (40, 48943), (41, 48925), (45, 48868), (48, 48784), (49, 48766), (68, 48382),

Gene: Fizzles_70 Start: 49488, Stop: 48133, Start Num: 13

Candidate Starts for Fizzles_70:

(1, 49803), (Start: 13 @49488 has 20 MA's), (20, 49314), (21, 49296), (25, 49110), (26, 49101), (27, 49080), (30, 49029), (33, 48987), (34, 48945), (35, 48921), (40, 48702), (44, 48657), (46, 48624), (47, 48618), (48, 48555), (50, 48519), (54, 48471), (58, 48354), (60, 48351), (63, 48315), (64, 48312), (67, 48249), (68, 48180),

Gene: FrankDeliGuy_67 Start: 49442, Stop: 47949, Start Num: 13

Candidate Starts for FrankDeliGuy_67:

(2, 49583), (3, 49574), (4, 49565), (5, 49547), (6, 49538), (Start: 13 @49442 has 20 MA's), (17, 49304), (18, 49292), (20, 49271), (22, 49178), (23, 49121), (24, 49103), (28, 49019), (31, 48944), (32, 48935), (37, 48620), (40, 48557), (41, 48539), (45, 48482), (48, 48398), (56, 48272), (65, 48134),

Gene: Gazebo_71 Start: 50158, Stop: 48665, Start Num: 13

Candidate Starts for Gazebo_71:

(5, 50266), (6, 50257), (8, 50206), (9, 50191), (Start: 13 @50158 has 20 MA's), (17, 50020), (18, 50008), (20, 49987), (22, 49894), (24, 49819), (28, 49735), (32, 49651), (37, 49336), (40, 49273), (41, 49255), (45, 49198), (48, 49114), (49, 49096), (56, 48988), (65, 48850),

Gene: Grassboy_74 Start: 50127, Stop: 48634, Start Num: 13

Candidate Starts for Grassboy_74:

(5, 50232), (6, 50223), (8, 50172), (Start: 13 @50127 has 20 MA's), (17, 49989), (18, 49977), (20, 49956), (22, 49863), (24, 49788), (28, 49704), (31, 49629), (32, 49620), (37, 49305), (40, 49242), (41, 49224), (45, 49167), (48, 49083), (49, 49065), (56, 48957), (65, 48819),

Gene: Judebell_70 Start: 49490, Stop: 48006, Start Num: 13

Candidate Starts for Judebell_70:

(5, 49595), (6, 49586), (Start: 13 @49490 has 20 MA's), (17, 49352), (18, 49340), (20, 49319), (22, 49226), (23, 49169), (24, 49151), (28, 49067), (31, 48992), (32, 48983), (37, 48668), (40, 48605), (41, 48587), (45, 48530), (48, 48446), (49, 48428), (56, 48320), (65, 48191),

Gene: Kyva_74 Start: 50150, Stop: 48657, Start Num: 13

Candidate Starts for Kyva_74:

(2, 50291), (3, 50282), (4, 50273), (5, 50255), (6, 50246), (Start: 13 @50150 has 20 MA's), (17, 50012), (18, 50000), (20, 49979), (22, 49886), (23, 49829), (24, 49811), (28, 49727), (31, 49652), (32, 49643), (37, 49328), (40, 49265), (41, 49247), (45, 49190), (48, 49106), (49, 49088), (56, 48980), (65, 48842),

Gene: Llemily_70 Start: 49042, Stop: 47549, Start Num: 13

Candidate Starts for Llemily_70:

(5, 49147), (6, 49138), (Start: 13 @49042 has 20 MA's), (17, 48904), (18, 48892), (20, 48871), (22, 48778), (23, 48721), (24, 48703), (28, 48619), (31, 48544), (32, 48535), (37, 48220), (40, 48157), (41, 48139), (45, 48082), (48, 47998), (49, 47980), (68, 47596),

Gene: Lonelysoil_68 Start: 48799, Stop: 47306, Start Num: 13

Candidate Starts for Lonelysoil_68:

(5, 48907), (6, 48898), (8, 48847), (9, 48832), (Start: 13 @48799 has 20 MA's), (17, 48661), (18, 48649), (20, 48628), (22, 48535), (23, 48478), (24, 48460), (28, 48376), (31, 48301), (32, 48292), (37, 47977), (40, 47914), (41, 47896), (45, 47839), (48, 47755), (49, 47737), (56, 47629), (65, 47491),

Gene: Mentos_74 Start: 50714, Stop: 49221, Start Num: 13

Candidate Starts for Mentos_74:

(5, 50819), (6, 50810), (8, 50759), (Start: 13 @50714 has 20 MA's), (17, 50576), (18, 50564), (20, 50543), (22, 50450), (23, 50393), (24, 50375), (28, 50291), (31, 50216), (32, 50207), (37, 49892), (40, 49829), (41, 49811), (45, 49754), (48, 49670), (49, 49652), (56, 49544), (65, 49406),

Gene: Mila11_74 Start: 51421, Stop: 49928, Start Num: 13

Candidate Starts for Mila11_74:

(2, 51562), (3, 51553), (4, 51544), (5, 51526), (6, 51517), (Start: 13 @51421 has 20 MA's), (17, 51283), (18, 51271), (20, 51250), (22, 51157), (23, 51100), (24, 51082), (28, 50998), (32, 50914), (37, 50599), (40, 50536), (41, 50518), (45, 50461), (48, 50377), (49, 50359), (56, 50251),

Gene: MorillMayhem_72 Start: 50260, Stop: 48767, Start Num: 13

Candidate Starts for MorillMayhem_72:

(2, 50401), (3, 50392), (4, 50383), (5, 50365), (6, 50356), (Start: 13 @50260 has 20 MA's), (17, 50122), (18, 50110), (20, 50089), (22, 49996), (23, 49939), (24, 49921), (28, 49837), (32, 49753), (37, 49438), (40, 49375), (41, 49357), (45, 49300), (48, 49216), (49, 49198), (56, 49090),

Gene: Rowlf_68 Start: 49363, Stop: 47870, Start Num: 13

Candidate Starts for Rowlf_68:

(2, 49504), (3, 49495), (4, 49486), (5, 49468), (6, 49459), (Start: 13 @49363 has 20 MA's), (17, 49225), (20, 49192), (23, 49042), (24, 49024), (28, 48940), (31, 48865), (32, 48856), (37, 48541), (40, 48478), (41, 48460), (45, 48403), (48, 48319), (49, 48301), (56, 48193), (65, 48055),

Gene: SallyK_73 Start: 50894, Stop: 49401, Start Num: 13

Candidate Starts for SallyK_73:

(2, 51035), (3, 51026), (4, 51017), (5, 50999), (6, 50990), (Start: 13 @50894 has 20 MA's), (17, 50756), (18, 50744), (20, 50723), (22, 50630), (23, 50573), (24, 50555), (28, 50471), (31, 50396), (32, 50387), (37, 50072), (40, 50009), (41, 49991), (45, 49934), (48, 49850), (49, 49832), (56, 49724), (65, 49586),

Gene: Sillytadpoles_71 Start: 49030, Stop: 47537, Start Num: 13

Candidate Starts for Sillytadpoles_71:

(5, 49135), (6, 49126), (Start: 13 @49030 has 20 MA's), (17, 48892), (18, 48880), (20, 48859), (22, 48766), (23, 48709), (24, 48691), (28, 48607), (31, 48532), (32, 48523), (37, 48208), (40, 48145), (41, 48127), (45, 48070), (48, 47986), (49, 47968), (68, 47584),

Gene: SlySloth_75 Start: 49998, Stop: 48505, Start Num: 13

Candidate Starts for SlySloth_75:

(2, 50139), (3, 50130), (4, 50121), (5, 50103), (6, 50094), (Start: 13 @49998 has 20 MA's), (17, 49860), (18, 49848), (20, 49827), (22, 49734), (23, 49677), (24, 49659), (28, 49575), (31, 49500), (32, 49491),

(37, 49176), (40, 49113), (41, 49095), (45, 49038), (48, 48954), (56, 48828), (65, 48690),

Gene: Statler_74 Start: 50079, Stop: 48586, Start Num: 13

Candidate Starts for Statler_74:

(2, 50220), (3, 50211), (4, 50202), (5, 50184), (6, 50175), (Start: 13 @50079 has 20 MA's), (17, 49941), (20, 49908), (23, 49758), (24, 49740), (28, 49656), (31, 49581), (32, 49572), (37, 49257), (40, 49194), (41, 49176), (45, 49119), (48, 49035), (49, 49017), (56, 48909), (65, 48771),

Gene: Tissue_72 Start: 49757, Stop: 48264, Start Num: 13

Candidate Starts for Tissue_72:

(2, 49898), (3, 49889), (4, 49880), (5, 49862), (6, 49853), (Start: 13 @49757 has 20 MA's), (17, 49619), (18, 49607), (20, 49586), (22, 49493), (23, 49436), (24, 49418), (28, 49334), (31, 49259), (32, 49250), (37, 48935), (40, 48872), (41, 48854), (45, 48797), (48, 48713), (49, 48695), (56, 48587), (65, 48449),

Gene: ValentiniPuff_21 Start: 13459, Stop: 14676, Start Num: 16

Candidate Starts for ValentiniPuff_21:

(7, 13306), (10, 13366), (11, 13378), (14, 13405), (Start: 16 @13459 has 1 MA's), (22, 13651), (26, 13786), (29, 13831), (33, 13900), (34, 13942), (35, 13966), (46, 14254), (47, 14260), (52, 14383), (66, 14608),

Gene: Viceroy_69 Start: 49163, Stop: 47670, Start Num: 13

Candidate Starts for Viceroy_69:

(5, 49268), (6, 49259), (Start: 13 @49163 has 20 MA's), (17, 49025), (18, 49013), (20, 48992), (22, 48899), (23, 48842), (24, 48824), (28, 48740), (31, 48665), (32, 48656), (37, 48341), (40, 48278), (41, 48260), (45, 48203), (48, 48119), (49, 48101), (68, 47717),

Gene: WheelerS25_76 Start: 50660, Stop: 49179, Start Num: 13

Candidate Starts for WheelerS25_76:

(2, 50801), (3, 50792), (4, 50783), (5, 50765), (6, 50756), (Start: 13 @50660 has 20 MA's), (17, 50525), (20, 50492), (23, 50342), (24, 50324), (28, 50240), (32, 50156), (40, 49778), (41, 49760), (45, 49703), (48, 49619), (51, 49568), (56, 49493), (65, 49364), (68, 49226),

Gene: Wheelie_70 Start: 49347, Stop: 47854, Start Num: 13

Candidate Starts for Wheelie_70:

(5, 49452), (6, 49443), (Start: 13 @49347 has 20 MA's), (17, 49209), (18, 49197), (20, 49176), (22, 49083), (24, 49008), (28, 48924), (32, 48840), (37, 48525), (40, 48462), (41, 48444), (45, 48387), (48, 48303), (56, 48177), (65, 48039),

Gene: Zagie_71 Start: 49571, Stop: 48078, Start Num: 13

Candidate Starts for Zagie_71:

(2, 49715), (3, 49706), (4, 49697), (5, 49679), (6, 49670), (8, 49619), (9, 49604), (Start: 13 @49571 has 20 MA's), (17, 49433), (18, 49421), (20, 49400), (22, 49307), (23, 49250), (24, 49232), (28, 49148), (31, 49073), (32, 49064), (37, 48749), (40, 48686), (41, 48668), (45, 48611), (48, 48527), (49, 48509), (56, 48401), (65, 48263),

Gene: Zapato_81 Start: 47662, Stop: 48594, Start Num: 19

Candidate Starts for Zapato_81:

(12, 47506), (19, 47662), (24, 47848), (29, 47953), (36, 48115), (38, 48178), (39, 48211), (42, 48238), (43, 48256), (53, 48445), (55, 48463), (57, 48550), (59, 48553), (61, 48577), (62, 48580),

Gene: Zhafia_73 Start: 49827, Stop: 48334, Start Num: 13

Candidate Starts for Zhafia_73:

(5, 49932), (6, 49923), (Start: 13 @49827 has 20 MA's), (17, 49689), (18, 49677), (20, 49656), (22, 49563), (23, 49506), (24, 49488), (28, 49404), (31, 49329), (32, 49320), (37, 49005), (40, 48942), (41, 48924), (45, 48867), (48, 48783), (49, 48765), (68, 48381),