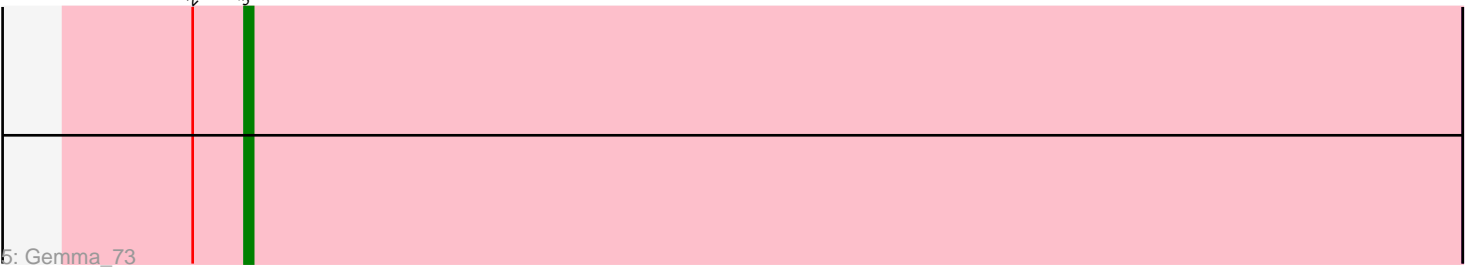
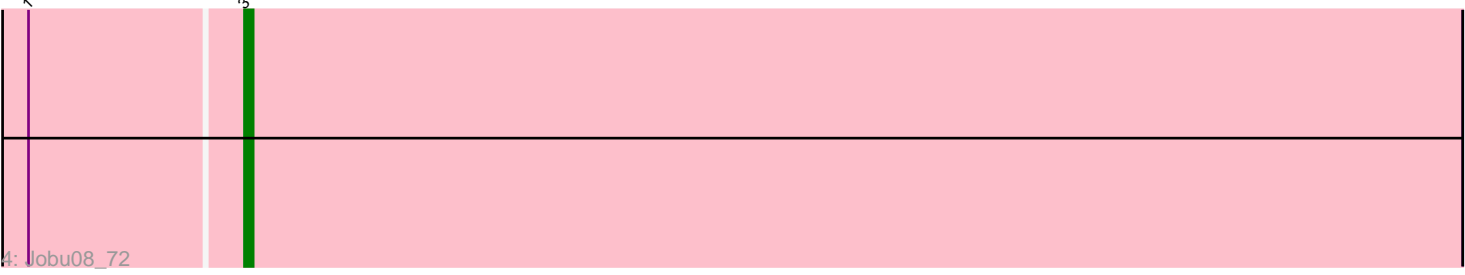
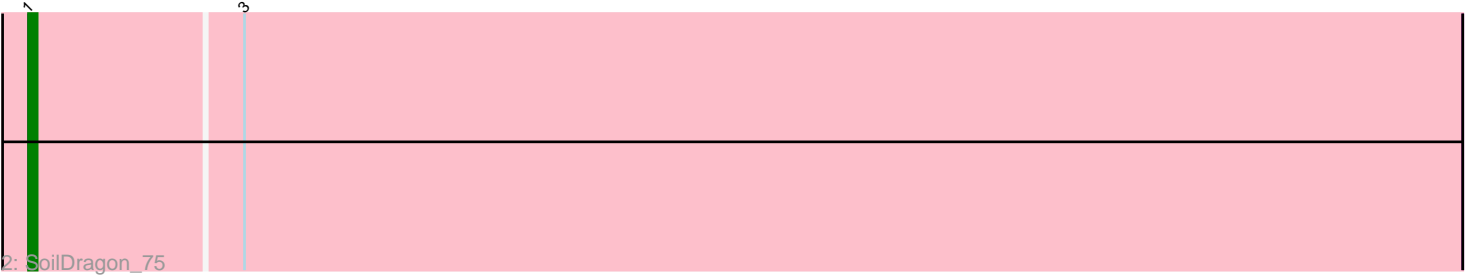


Pham 1179



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 1179 Report

This analysis was run 04/28/24 on database version 559.

Pham number 1179 has 80 members, 2 are drafts.

Phages represented in each track:

- Track 1 : KADY_73, Fernando_76, Penny1_76, Misomonster_77, Farber_76, Dieselweasel_76, EpicPhail_77, ACFishhook_73, Phoxy_76, MoneyMay_75, Lilith_74, GtownJaz_76, OlanP_74, BuzzBuzz_70, Manu_75, GingkoMaracino_76, Snickers_72, Hercules11_76, Groupthink_76, Tiffany_75, Aglet_77, LarryKay_76, Kalnok_76, Colbster_72, Marius_76, Anubis_79, JenCasNa_77, HashRod_77, Taurus_77, Grif_74, Watson_75, SoYo_73, Stagni_73, Kalb97_76, Bxz2_71, LBerry_77, Heliosoles_73, StepMih_75, MadMarie_74, Louie6_75, Grub_74, Sabinator_74, Methuselah_69, JHC117_72, Rummer_75, Mainiac_75, Microwolf_72, JeppNRM_76, PGHhamlin_78, Spike509_76, P28Green_76, Phoebe_77, MarQuardt_76, Soshari_78, HaveUMetTed_76, Sabia_74, Pawn_74, Wooldri_78, Malinsilva_78, LugYA_79, PotatoSplit_77, Cullens_76, DaHudson_75, PurpleHaze_75, Daishi_75, AgronaGT15_73, AugsMagnumOpus_79, MuchMore_79, Marie_74, Grum1_75, Ollie_76, Pembroke_76, PhishRPhriends_72, Vix_72, BreSam8_76, Beauxregard13_75
- Track 2 : SoilDragon_75
- Track 3 : Zetzy_73
- Track 4 : Jobu08_72
- Track 5 : Gemma_73

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

The start number called the most often in the published annotations is 3, it was called in 77 of the 78 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- ACFishhook_73, Aglet_77, AgronaGT15_73, Anubis_79, AugsMagnumOpus_79, Beauxregard13_75, BreSam8_76, BuzzBuzz_70, Bxz2_71, Colbster_72, Cullens_76, DaHudson_75, Daishi_75, Dieselweasel_76, EpicPhail_77, Farber_76, Fernando_76, Gemma_73, GingkoMaracino_76, Grif_74, Groupthink_76, Grub_74, Grum1_75, GtownJaz_76, HashRod_77, HaveUMetTed_76, Heliosoles_73, Hercules11_76, JHC117_72, JenCasNa_77, JeppNRM_76, Jobu08_72, KADY_73, Kalb97_76, Kalnok_76, LBerry_77, LarryKay_76, Lilith_74, Louie6_75, LugYA_79, MadMarie_74, Mainiac_75, Malinsilva_78, Manu_75, MarQuardt_76, Marie_74, Marius_76, Methuselah_69, Microwolf_72, Misomonster_77, MoneyMay_75,

MuchMore_79, OlanP_74, Ollie_76, P28Green_76, PGHhamlin_78, Pawn_74, Pembroke_76, Penny1_76, PhishRPhriends_72, Phoebe_77, Phoxy_76, PotatoSplit_77, PurpleHaze_75, Rummer_75, Sabia_74, Sabinator_74, Snickers_72, SoYo_73, Soshari_78, Spike509_76, Stagni_73, StepMih_75, Taurus_77, Tiffany_75, Vix_72, Watson_75, Wooldri_78, Zetzy_73,

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

- SoilDragon_75,

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

-

Summary by start number:

Start 1:

- Found in 2 of 80 (2.5%) of genes in pham
- Manual Annotations of this start: 1 of 78
- Called 50.0% of time when present
- Phage (with cluster) where this start called: SoilDragon_75 (A3),

Start 3:

- Found in 80 of 80 (100.0%) of genes in pham
- Manual Annotations of this start: 77 of 78
- Called 98.8% of time when present
- Phage (with cluster) where this start called: ACFishhook_73 (A3), Aglet_77 (A3), AgronaGT15_73 (A3), Anubis_79 (A3), AugsMagnumOpus_79 (A3), Beauxregard13_75 (A3), BreSam8_76 (A3), BuzzBuzz_70 (A3), Bxz2_71 (A3), Colbster_72 (A3), Cullens_76 (A3), DaHudson_75 (A3), Daishi_75 (A3), Dieselweasel_76 (A3), EpicPhail_77 (A3), Farber_76 (A3), Fernando_76 (A3), Gemma_73 (A3), GingkoMaracino_76 (A3), Grif_74 (A3), Groupthink_76 (A3), Grub_74 (A3), Grum1_75 (A3), GtownJaz_76 (A3), HashRod_77 (A3), HaveUMetTed_76 (A3), Heliosoles_73 (A3), Hercules11_76 (A3), JHC117_72 (A3), JenCasNa_77 (A3), JeppNRM_76 (A3), Jobu08_72 (A3), KADY_73 (A3), Kalb97_76 (A3), Kalnoky_76 (A3), LBerry_77 (A3), LarryKay_76 (A3), Lilith_74 (A3), Louie6_75 (A3), LugYA_79 (A3), MadMarie_74 (A3), Mainiac_75 (A3), Malinsilva_78 (A3), Manu_75 (A3), MarQuardt_76 (A3), Marie_74 (A3), Marius_76 (A3), Methuselah_69 (A3), Microwolf_72 (A3), Misomonster_77 (A3), MoneyMay_75 (A3), MuchMore_79 (A3), OlanP_74 (A3), Ollie_76 (A3), P28Green_76 (A3), PGHhamlin_78 (A3), Pawn_74 (A3), Pembroke_76 (A3), Penny1_76 (A3), PhishRPhriends_72 (A3), Phoebe_77 (A3), Phoxy_76 (A3), PotatoSplit_77 (A3), PurpleHaze_75 (A3), Rummer_75 (A3), Sabia_74 (A3), Sabinator_74 (A3), Snickers_72 (A3), SoYo_73 (A3), Soshari_78 (A3), Spike509_76 (A3), Stagni_73 (A3), StepMih_75 (A3), Taurus_77 (A3), Tiffany_75 (A3), Vix_72 (A3), Watson_75 (A3), Wooldri_78 (A3), Zetzy_73 (A3),

Summary by clusters:

There is one cluster represented in this pham: A3

Info for manual annotations of cluster A3:

- Start number 1 was manually annotated 1 time for cluster A3.
- Start number 3 was manually annotated 77 times for cluster A3.

Gene Information:

Gene: ACFishhook_73 Start: 43094, Stop: 42954, Start Num: 3
Candidate Starts for ACFishhook_73:
(Start: 3 @43094 has 77 MA's),

Gene: Aglet_77 Start: 43206, Stop: 43066, Start Num: 3
Candidate Starts for Aglet_77:
(Start: 3 @43206 has 77 MA's),

Gene: AgronaGT15_73 Start: 43054, Stop: 42914, Start Num: 3
Candidate Starts for AgronaGT15_73:
(Start: 3 @43054 has 77 MA's),

Gene: Anubis_79 Start: 43092, Stop: 42952, Start Num: 3
Candidate Starts for Anubis_79:
(Start: 3 @43092 has 77 MA's),

Gene: AugsMagnumOpus_79 Start: 43197, Stop: 43057, Start Num: 3
Candidate Starts for AugsMagnumOpus_79:
(Start: 3 @43197 has 77 MA's),

Gene: Beauxregard13_75 Start: 43209, Stop: 43069, Start Num: 3
Candidate Starts for Beauxregard13_75:
(Start: 3 @43209 has 77 MA's),

Gene: BreSam8_76 Start: 43199, Stop: 43059, Start Num: 3
Candidate Starts for BreSam8_76:
(Start: 3 @43199 has 77 MA's),

Gene: BuzzBuzz_70 Start: 43233, Stop: 43093, Start Num: 3
Candidate Starts for BuzzBuzz_70:
(Start: 3 @43233 has 77 MA's),

Gene: Bxz2_71 Start: 43240, Stop: 43100, Start Num: 3
Candidate Starts for Bxz2_71:
(Start: 3 @43240 has 77 MA's),

Gene: Colbster_72 Start: 43209, Stop: 43069, Start Num: 3
Candidate Starts for Colbster_72:
(Start: 3 @43209 has 77 MA's),

Gene: Cullens_76 Start: 43205, Stop: 43065, Start Num: 3
Candidate Starts for Cullens_76:
(Start: 3 @43205 has 77 MA's),

Gene: DaHudson_75 Start: 43198, Stop: 43058, Start Num: 3
Candidate Starts for DaHudson_75:
(Start: 3 @43198 has 77 MA's),

Gene: Daishi_75 Start: 42073, Stop: 41933, Start Num: 3

Candidate Starts for Daishi_75:
(Start: 3 @42073 has 77 MA's),

Gene: Dieselweasel_76 Start: 43207, Stop: 43067, Start Num: 3
Candidate Starts for Dieselweasel_76:
(Start: 3 @43207 has 77 MA's),

Gene: EpicPhail_77 Start: 43209, Stop: 43069, Start Num: 3
Candidate Starts for EpicPhail_77:
(Start: 3 @43209 has 77 MA's),

Gene: Farber_76 Start: 43195, Stop: 43055, Start Num: 3
Candidate Starts for Farber_76:
(Start: 3 @43195 has 77 MA's),

Gene: Fernando_76 Start: 43205, Stop: 43065, Start Num: 3
Candidate Starts for Fernando_76:
(Start: 3 @43205 has 77 MA's),

Gene: Gemma_73 Start: 43018, Stop: 42878, Start Num: 3
Candidate Starts for Gemma_73:
(2, 43024), (Start: 3 @43018 has 77 MA's),

Gene: GingkoMaracino_76 Start: 43091, Stop: 42951, Start Num: 3
Candidate Starts for GingkoMaracino_76:
(Start: 3 @43091 has 77 MA's),

Gene: Grif_74 Start: 43279, Stop: 43139, Start Num: 3
Candidate Starts for Grif_74:
(Start: 3 @43279 has 77 MA's),

Gene: Groupthink_76 Start: 43022, Stop: 42882, Start Num: 3
Candidate Starts for Groupthink_76:
(Start: 3 @43022 has 77 MA's),

Gene: Grub_74 Start: 43197, Stop: 43057, Start Num: 3
Candidate Starts for Grub_74:
(Start: 3 @43197 has 77 MA's),

Gene: Grum1_75 Start: 43205, Stop: 43065, Start Num: 3
Candidate Starts for Grum1_75:
(Start: 3 @43205 has 77 MA's),

Gene: GtownJaz_76 Start: 43206, Stop: 43066, Start Num: 3
Candidate Starts for GtownJaz_76:
(Start: 3 @43206 has 77 MA's),

Gene: HashRod_77 Start: 43233, Stop: 43093, Start Num: 3
Candidate Starts for HashRod_77:
(Start: 3 @43233 has 77 MA's),

Gene: HaveUMetTed_76 Start: 43007, Stop: 42867, Start Num: 3
Candidate Starts for HaveUMetTed_76:

(Start: 3 @43007 has 77 MA's),

Gene: Heliosoles_73 Start: 43025, Stop: 42885, Start Num: 3

Candidate Starts for Heliosoles_73:

(Start: 3 @43025 has 77 MA's),

Gene: Hercules11_76 Start: 43214, Stop: 43074, Start Num: 3

Candidate Starts for Hercules11_76:

(Start: 3 @43214 has 77 MA's),

Gene: JHC117_72 Start: 43203, Stop: 43063, Start Num: 3

Candidate Starts for JHC117_72:

(Start: 3 @43203 has 77 MA's),

Gene: JenCasNa_77 Start: 43205, Stop: 43065, Start Num: 3

Candidate Starts for JenCasNa_77:

(Start: 3 @43205 has 77 MA's),

Gene: JeppNRM_76 Start: 43023, Stop: 42883, Start Num: 3

Candidate Starts for JeppNRM_76:

(Start: 3 @43023 has 77 MA's),

Gene: Jobu08_72 Start: 43037, Stop: 42897, Start Num: 3

Candidate Starts for Jobu08_72:

(Start: 1 @43061 has 1 MA's), (Start: 3 @43037 has 77 MA's),

Gene: KADY_73 Start: 43233, Stop: 43093, Start Num: 3

Candidate Starts for KADY_73:

(Start: 3 @43233 has 77 MA's),

Gene: Kalb97_76 Start: 43021, Stop: 42881, Start Num: 3

Candidate Starts for Kalb97_76:

(Start: 3 @43021 has 77 MA's),

Gene: Kalnoky_76 Start: 43019, Stop: 42879, Start Num: 3

Candidate Starts for Kalnoky_76:

(Start: 3 @43019 has 77 MA's),

Gene: LBerry_77 Start: 43209, Stop: 43069, Start Num: 3

Candidate Starts for LBerry_77:

(Start: 3 @43209 has 77 MA's),

Gene: LarryKay_76 Start: 43234, Stop: 43094, Start Num: 3

Candidate Starts for LarryKay_76:

(Start: 3 @43234 has 77 MA's),

Gene: Lilith_74 Start: 43198, Stop: 43058, Start Num: 3

Candidate Starts for Lilith_74:

(Start: 3 @43198 has 77 MA's),

Gene: Louie6_75 Start: 43235, Stop: 43095, Start Num: 3

Candidate Starts for Louie6_75:

(Start: 3 @43235 has 77 MA's),

Gene: LugYA_79 Start: 43206, Stop: 43066, Start Num: 3
Candidate Starts for LugYA_79:
(Start: 3 @43206 has 77 MA's),

Gene: MadMarie_74 Start: 43206, Stop: 43066, Start Num: 3
Candidate Starts for MadMarie_74:
(Start: 3 @43206 has 77 MA's),

Gene: Mainiac_75 Start: 43198, Stop: 43058, Start Num: 3
Candidate Starts for Mainiac_75:
(Start: 3 @43198 has 77 MA's),

Gene: Malinsilva_78 Start: 43197, Stop: 43057, Start Num: 3
Candidate Starts for Malinsilva_78:
(Start: 3 @43197 has 77 MA's),

Gene: Manu_75 Start: 43022, Stop: 42882, Start Num: 3
Candidate Starts for Manu_75:
(Start: 3 @43022 has 77 MA's),

Gene: MarQuardt_76 Start: 43207, Stop: 43067, Start Num: 3
Candidate Starts for MarQuardt_76:
(Start: 3 @43207 has 77 MA's),

Gene: Marie_74 Start: 43205, Stop: 43065, Start Num: 3
Candidate Starts for Marie_74:
(Start: 3 @43205 has 77 MA's),

Gene: Marius_76 Start: 43019, Stop: 42879, Start Num: 3
Candidate Starts for Marius_76:
(Start: 3 @43019 has 77 MA's),

Gene: Methuselah_69 Start: 43229, Stop: 43089, Start Num: 3
Candidate Starts for Methuselah_69:
(Start: 3 @43229 has 77 MA's),

Gene: Microwolf_72 Start: 43221, Stop: 43081, Start Num: 3
Candidate Starts for Microwolf_72:
(Start: 3 @43221 has 77 MA's),

Gene: Misomonster_77 Start: 43232, Stop: 43092, Start Num: 3
Candidate Starts for Misomonster_77:
(Start: 3 @43232 has 77 MA's),

Gene: MoneyMay_75 Start: 43205, Stop: 43065, Start Num: 3
Candidate Starts for MoneyMay_75:
(Start: 3 @43205 has 77 MA's),

Gene: MuchMore_79 Start: 43197, Stop: 43057, Start Num: 3
Candidate Starts for MuchMore_79:
(Start: 3 @43197 has 77 MA's),

Gene: OlanP_74 Start: 43195, Stop: 43055, Start Num: 3
Candidate Starts for OlanP_74:
(Start: 3 @43195 has 77 MA's),

Gene: Ollie_76 Start: 43076, Stop: 42936, Start Num: 3
Candidate Starts for Ollie_76:
(Start: 3 @43076 has 77 MA's),

Gene: P28Green_76 Start: 43208, Stop: 43068, Start Num: 3
Candidate Starts for P28Green_76:
(Start: 3 @43208 has 77 MA's),

Gene: PGHhamlin_78 Start: 43197, Stop: 43057, Start Num: 3
Candidate Starts for PGHhamlin_78:
(Start: 3 @43197 has 77 MA's),

Gene: Pawn_74 Start: 43026, Stop: 42886, Start Num: 3
Candidate Starts for Pawn_74:
(Start: 3 @43026 has 77 MA's),

Gene: Pembroke_76 Start: 43206, Stop: 43066, Start Num: 3
Candidate Starts for Pembroke_76:
(Start: 3 @43206 has 77 MA's),

Gene: Penny1_76 Start: 43209, Stop: 43069, Start Num: 3
Candidate Starts for Penny1_76:
(Start: 3 @43209 has 77 MA's),

Gene: PhishRPhriends_72 Start: 42203, Stop: 42063, Start Num: 3
Candidate Starts for PhishRPhriends_72:
(Start: 3 @42203 has 77 MA's),

Gene: Phoebe_77 Start: 43198, Stop: 43058, Start Num: 3
Candidate Starts for Phoebe_77:
(Start: 3 @43198 has 77 MA's),

Gene: Phoxy_76 Start: 43230, Stop: 43090, Start Num: 3
Candidate Starts for Phoxy_76:
(Start: 3 @43230 has 77 MA's),

Gene: PotatoSplit_77 Start: 43209, Stop: 43069, Start Num: 3
Candidate Starts for PotatoSplit_77:
(Start: 3 @43209 has 77 MA's),

Gene: PurpleHaze_75 Start: 43021, Stop: 42881, Start Num: 3
Candidate Starts for PurpleHaze_75:
(Start: 3 @43021 has 77 MA's),

Gene: Rummer_75 Start: 43233, Stop: 43093, Start Num: 3
Candidate Starts for Rummer_75:
(Start: 3 @43233 has 77 MA's),

Gene: Sabia_74 Start: 43213, Stop: 43073, Start Num: 3

Candidate Starts for Sabia_74:
(Start: 3 @43213 has 77 MA's),

Gene: Sabinator_74 Start: 43204, Stop: 43064, Start Num: 3
Candidate Starts for Sabinator_74:
(Start: 3 @43204 has 77 MA's),

Gene: Snickers_72 Start: 43178, Stop: 43038, Start Num: 3
Candidate Starts for Snickers_72:
(Start: 3 @43178 has 77 MA's),

Gene: SoYo_73 Start: 43117, Stop: 42977, Start Num: 3
Candidate Starts for SoYo_73:
(Start: 3 @43117 has 77 MA's),

Gene: SoilDragon_75 Start: 42677, Stop: 42513, Start Num: 1
Candidate Starts for SoilDragon_75:
(Start: 1 @42677 has 1 MA's), (Start: 3 @42653 has 77 MA's),

Gene: Soshari_78 Start: 43229, Stop: 43089, Start Num: 3
Candidate Starts for Soshari_78:
(Start: 3 @43229 has 77 MA's),

Gene: Spike509_76 Start: 43230, Stop: 43090, Start Num: 3
Candidate Starts for Spike509_76:
(Start: 3 @43230 has 77 MA's),

Gene: Stagni_73 Start: 43208, Stop: 43068, Start Num: 3
Candidate Starts for Stagni_73:
(Start: 3 @43208 has 77 MA's),

Gene: StepMih_75 Start: 43199, Stop: 43059, Start Num: 3
Candidate Starts for StepMih_75:
(Start: 3 @43199 has 77 MA's),

Gene: Taurus_77 Start: 43205, Stop: 43065, Start Num: 3
Candidate Starts for Taurus_77:
(Start: 3 @43205 has 77 MA's),

Gene: Tiffany_75 Start: 43090, Stop: 42950, Start Num: 3
Candidate Starts for Tiffany_75:
(Start: 3 @43090 has 77 MA's),

Gene: Vix_72 Start: 43288, Stop: 43148, Start Num: 3
Candidate Starts for Vix_72:
(Start: 3 @43288 has 77 MA's),

Gene: Watson_75 Start: 43197, Stop: 43057, Start Num: 3
Candidate Starts for Watson_75:
(Start: 3 @43197 has 77 MA's),

Gene: Wooldri_78 Start: 43117, Stop: 42977, Start Num: 3
Candidate Starts for Wooldri_78:

(Start: 3 @43117 has 77 MA's),

Gene: Zetzy_73 Start: 42768, Stop: 42628, Start Num: 3

Candidate Starts for Zetzy_73:

(Start: 3 @42768 has 77 MA's), (4, 42648),