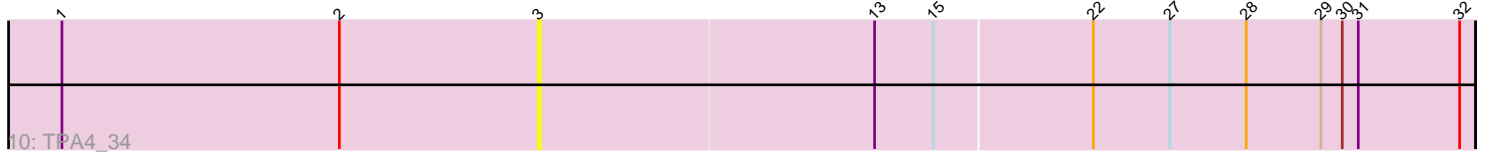
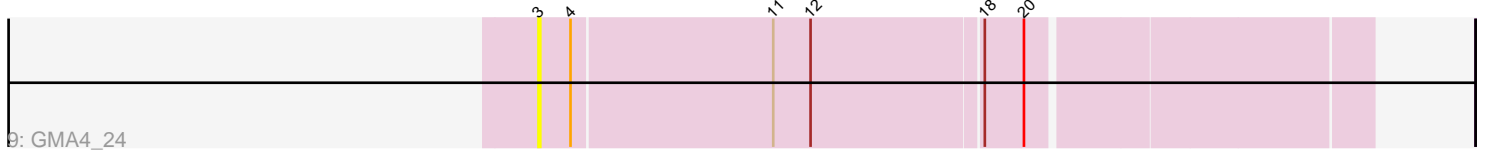
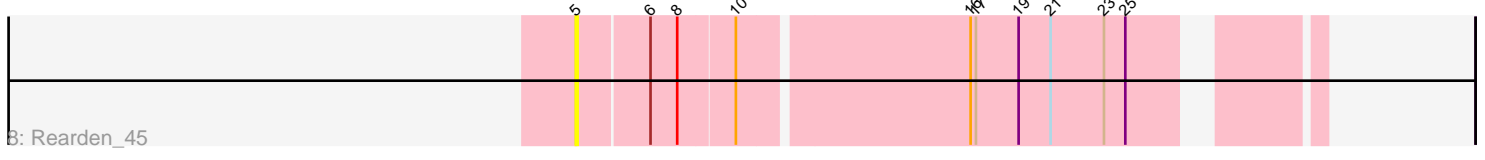
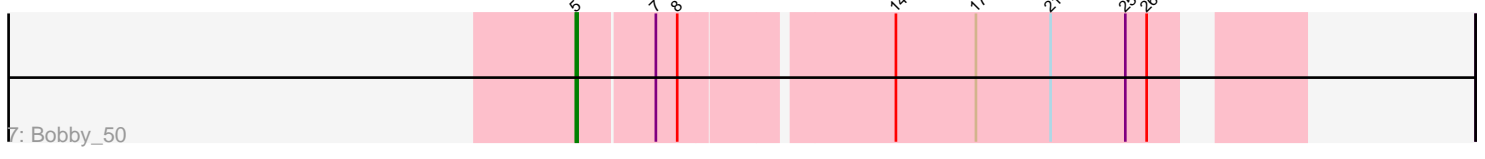
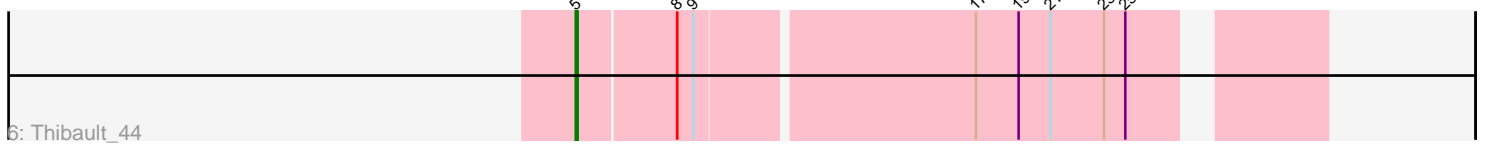
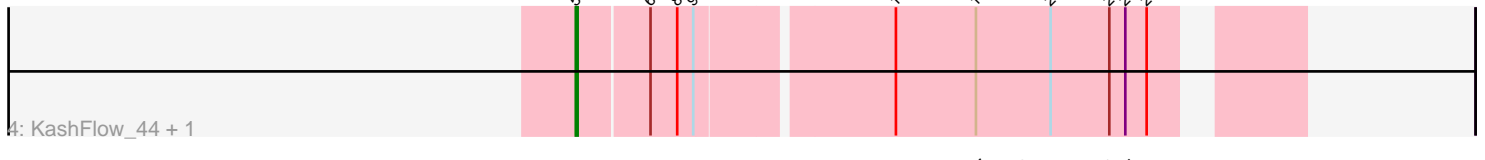
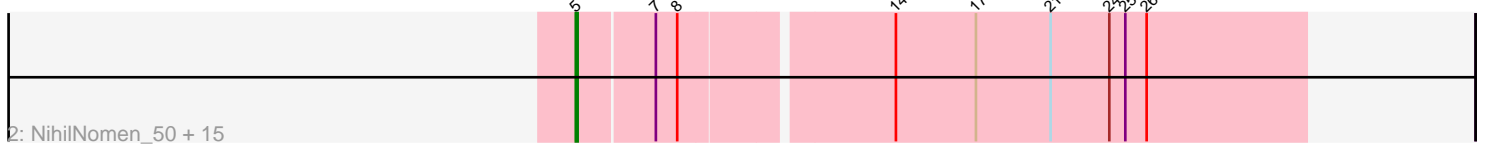
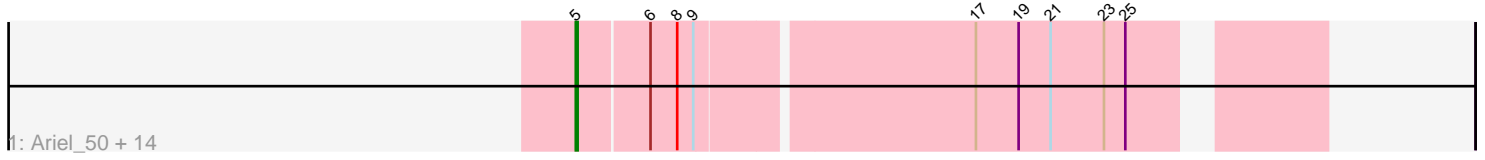


Pham 224665



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 224665 Report

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

Pham number 224665 has 49 members, 9 are drafts.

Phages represented in each track:

- Track 1 : Ariel_50, Dallas_53, Gonephishing_52, Courthouse_50, Lucky2013_50, Redno2_49, Porcelain_49, MiaZeal_50, Nekros_49, Marleymoo_52, Squint_49, Omega_55, LittleE_55, Zelink_52, Superphikiman_50
- Track 2 : NihilNomen_50, Dove_48, DmpstrDiver_52, Pound_53, Phoebus_50, Duke13_54, Constella_43, Kalah2_51, Wanda_57, Optimus_56, Bombitas_48, Minerva_57, Odette_51, Schatzie_48, JuicyJay_53, Klein_51
- Track 3 : Hughesyang_49, Ejimix_51, Bagrid_50, EricMillard_51, ThreeRngTarjay_49, Beem_51, Halley_51, BAKA_55, Yeet_49, HokkenD_44
- Track 4 : KashFlow_44, Hannaconda_47
- Track 5 : Shaboozey_43
- Track 6 : Thibault_44
- Track 7 : Bobby_50
- Track 8 : Rearden_45
- Track 9 : GMA4_24
- Track 10 : TPA4_34

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

The start number called the most often in the published annotations is 5, it was called in 40 of the 40 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Ariel_50, BAKA_55, Bagrid_50, Beem_51, Bobby_50, Bombitas_48, Constella_43, Courthouse_50, Dallas_53, DmpstrDiver_52, Dove_48, Duke13_54, Ejimix_51, EricMillard_51, Gonephishing_52, Halley_51, Hannaconda_47, HokkenD_44, Hughesyang_49, JuicyJay_53, Kalah2_51, KashFlow_44, Klein_51, LittleE_55, Lucky2013_50, Marleymoo_52, MiaZeal_50, Minerva_57, Nekros_49, NihilNomen_50, Odette_51, Omega_55, Optimus_56, Phoebus_50, Porcelain_49, Pound_53, Rearden_45, Redno2_49, Schatzie_48, Shaboozey_43, Squint_49, Superphikiman_50, Thibault_44, ThreeRngTarjay_49, Wanda_57, Yeet_49, Zelink_52,

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

-

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

- GMA4_24, TPA4_34,

Summary by start number:

Start 3:

- Found in 2 of 49 (4.1%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: GMA4_24 (singleton), TPA4_34 (singleton),

Start 5:

- Found in 47 of 49 (95.9%) of genes in pham
- Manual Annotations of this start: 40 of 40
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Ariel_50 (J), BAKA_55 (J), Bagrid_50 (J), Beem_51 (J), Bobby_50 (J), Bombitas_48 (J), Constella_43 (J), Courthouse_50 (J), Dallas_53 (J), DmpstrDiver_52 (J), Dove_48 (J), Duke13_54 (J), Ejimix_51 (J), EricMillard_51 (J), Gonephishing_52 (J), Halley_51 (J), Hannaconda_47 (J), HokkenD_44 (J), Hughesyang_49 (J), JuicyJay_53 (J), Kalah2_51 (J), KashFlow_44 (J), Klein_51 (J), LittleE_55 (J), Lucky2013_50 (J), Marleymoo_52 (J), MiaZeal_50 (J), Minerva_57 (J), Nekros_49 (J), NihilNomen_50 (J), Odette_51 (J), Omega_55 (J), Optimus_56 (J), Phoebus_50 (J), Porcelain_49 (J), Pound_53 (J), Rearden_45 (J), Redno2_49 (J), Schatzie_48 (J), Shaboozey_43 (J), Squint_49 (J), Superphikiman_50 (J), Thibault_44 (J), ThreeRngTarjay_49 (J), Wanda_57 (J), Yeet_49 (J), Zelink_52 (J),

Summary by clusters:

There are 2 clusters represented in this pham: singleton, J,

Info for manual annotations of cluster J:

- Start number 5 was manually annotated 40 times for cluster J.

Gene Information:

Gene: Ariel_50 Start: 40019, Stop: 40405, Start Num: 5

Candidate Starts for Ariel_50:

(Start: 5 @40019 has 40 MA's), (6, 40058), (8, 40073), (9, 40082), (17, 40229), (19, 40253), (21, 40271), (23, 40301), (25, 40313),

Gene: BAKA_55 Start: 43842, Stop: 44237, Start Num: 5

Candidate Starts for BAKA_55:

(Start: 5 @43842 has 40 MA's), (7, 43884), (8, 43896), (14, 44007), (17, 44052), (21, 44094), (24, 44127), (25, 44136),

Gene: Bagrid_50 Start: 43175, Stop: 43570, Start Num: 5

Candidate Starts for Bagrid_50:

(Start: 5 @43175 has 40 MA's), (7, 43217), (8, 43229), (14, 43340), (17, 43385), (21, 43427), (24, 43460), (25, 43469),

Gene: Beem_51 Start: 43741, Stop: 44136, Start Num: 5

Candidate Starts for Beem_51:

(Start: 5 @43741 has 40 MA's), (7, 43783), (8, 43795), (14, 43906), (17, 43951), (21, 43993), (24, 44026), (25, 44035),

Gene: Bobby_50 Start: 42341, Stop: 42715, Start Num: 5

Candidate Starts for Bobby_50:

(Start: 5 @42341 has 40 MA's), (7, 42383), (8, 42395), (14, 42506), (17, 42551), (21, 42593), (25, 42635), (26, 42647),

Gene: Bombitas_48 Start: 43335, Stop: 43730, Start Num: 5

Candidate Starts for Bombitas_48:

(Start: 5 @43335 has 40 MA's), (7, 43377), (8, 43389), (14, 43500), (17, 43545), (21, 43587), (24, 43620), (25, 43629), (26, 43641),

Gene: Constella_43 Start: 39899, Stop: 40273, Start Num: 5

Candidate Starts for Constella_43:

(Start: 5 @39899 has 40 MA's), (7, 39941), (8, 39953), (14, 40064), (17, 40109), (21, 40151), (24, 40184), (25, 40193), (26, 40205),

Gene: Courthouse_50 Start: 40423, Stop: 40809, Start Num: 5

Candidate Starts for Courthouse_50:

(Start: 5 @40423 has 40 MA's), (6, 40462), (8, 40477), (9, 40486), (17, 40633), (19, 40657), (21, 40675), (23, 40705), (25, 40717),

Gene: Dallas_53 Start: 43296, Stop: 43670, Start Num: 5

Candidate Starts for Dallas_53:

(Start: 5 @43296 has 40 MA's), (6, 43335), (8, 43350), (9, 43359), (17, 43506), (19, 43530), (21, 43548), (23, 43578), (25, 43590),

Gene: DmpstrDiver_52 Start: 43289, Stop: 43663, Start Num: 5

Candidate Starts for DmpstrDiver_52:

(Start: 5 @43289 has 40 MA's), (7, 43331), (8, 43343), (14, 43454), (17, 43499), (21, 43541), (24, 43574), (25, 43583), (26, 43595),

Gene: Dove_48 Start: 42823, Stop: 43197, Start Num: 5

Candidate Starts for Dove_48:

(Start: 5 @42823 has 40 MA's), (7, 42865), (8, 42877), (14, 42988), (17, 43033), (21, 43075), (24, 43108), (25, 43117), (26, 43129),

Gene: Duke13_54 Start: 43607, Stop: 44002, Start Num: 5

Candidate Starts for Duke13_54:

(Start: 5 @43607 has 40 MA's), (7, 43649), (8, 43661), (14, 43772), (17, 43817), (21, 43859), (24, 43892), (25, 43901), (26, 43913),

Gene: Ejimix_51 Start: 44526, Stop: 44921, Start Num: 5

Candidate Starts for Ejimix_51:

(Start: 5 @44526 has 40 MA's), (7, 44568), (8, 44580), (14, 44691), (17, 44736), (21, 44778), (24, 44811), (25, 44820),

Gene: EricMillard_51 Start: 44027, Stop: 44422, Start Num: 5

Candidate Starts for EricMillard_51:

(Start: 5 @44027 has 40 MA's), (7, 44069), (8, 44081), (14, 44192), (17, 44237), (21, 44279), (24, 44312), (25, 44321),

Gene: GMA4_24 Start: 21879, Stop: 22325, Start Num: 3

Candidate Starts for GMA4_24:

(3, 21879), (4, 21897), (11, 22008), (12, 22029), (18, 22122), (20, 22143),

Gene: Gonephishing_52 Start: 41701, Stop: 42087, Start Num: 5

Candidate Starts for Gonephishing_52:

(Start: 5 @41701 has 40 MA's), (6, 41740), (8, 41755), (9, 41764), (17, 41911), (19, 41935), (21, 41953), (23, 41983), (25, 41995),

Gene: Halley_51 Start: 43740, Stop: 44135, Start Num: 5

Candidate Starts for Halley_51:

(Start: 5 @43740 has 40 MA's), (7, 43782), (8, 43794), (14, 43905), (17, 43950), (21, 43992), (24, 44025), (25, 44034),

Gene: Hannaconda_47 Start: 38249, Stop: 38623, Start Num: 5

Candidate Starts for Hannaconda_47:

(Start: 5 @38249 has 40 MA's), (6, 38288), (8, 38303), (9, 38312), (14, 38414), (17, 38459), (21, 38501), (24, 38534), (25, 38543), (26, 38555),

Gene: HokkenD_44 Start: 42009, Stop: 42404, Start Num: 5

Candidate Starts for HokkenD_44:

(Start: 5 @42009 has 40 MA's), (7, 42051), (8, 42063), (14, 42174), (17, 42219), (21, 42261), (24, 42294), (25, 42303),

Gene: Hughesyang_49 Start: 43669, Stop: 44064, Start Num: 5

Candidate Starts for Hughesyang_49:

(Start: 5 @43669 has 40 MA's), (7, 43711), (8, 43723), (14, 43834), (17, 43879), (21, 43921), (24, 43954), (25, 43963),

Gene: JuicyJay_53 Start: 45516, Stop: 45890, Start Num: 5

Candidate Starts for JuicyJay_53:

(Start: 5 @45516 has 40 MA's), (7, 45558), (8, 45570), (14, 45681), (17, 45726), (21, 45768), (24, 45801), (25, 45810), (26, 45822),

Gene: Kalah2_51 Start: 44095, Stop: 44490, Start Num: 5

Candidate Starts for Kalah2_51:

(Start: 5 @44095 has 40 MA's), (7, 44137), (8, 44149), (14, 44260), (17, 44305), (21, 44347), (24, 44380), (25, 44389), (26, 44401),

Gene: KashFlow_44 Start: 37870, Stop: 38244, Start Num: 5

Candidate Starts for KashFlow_44:

(Start: 5 @37870 has 40 MA's), (6, 37909), (8, 37924), (9, 37933), (14, 38035), (17, 38080), (21, 38122), (24, 38155), (25, 38164), (26, 38176),

Gene: Klein_51 Start: 43328, Stop: 43702, Start Num: 5

Candidate Starts for Klein_51:

(Start: 5 @43328 has 40 MA's), (7, 43370), (8, 43382), (14, 43493), (17, 43538), (21, 43580), (24, 43613), (25, 43622), (26, 43634),

Gene: LittleE_55 Start: 43568, Stop: 43954, Start Num: 5

Candidate Starts for LittleE_55:

(Start: 5 @43568 has 40 MA's), (6, 43607), (8, 43622), (9, 43631), (17, 43778), (19, 43802), (21, 43820), (23, 43850), (25, 43862),

Gene: Lucky2013_50 Start: 40559, Stop: 40945, Start Num: 5

Candidate Starts for Lucky2013_50:

(Start: 5 @40559 has 40 MA's), (6, 40598), (8, 40613), (9, 40622), (17, 40769), (19, 40793), (21, 40811), (23, 40841), (25, 40853),

Gene: Marleymoo_52 Start: 43437, Stop: 43823, Start Num: 5

Candidate Starts for Marleymoo_52:

(Start: 5 @43437 has 40 MA's), (6, 43476), (8, 43491), (9, 43500), (17, 43647), (19, 43671), (21, 43689), (23, 43719), (25, 43731),

Gene: MiaZeal_50 Start: 40234, Stop: 40620, Start Num: 5

Candidate Starts for MiaZeal_50:

(Start: 5 @40234 has 40 MA's), (6, 40273), (8, 40288), (9, 40297), (17, 40444), (19, 40468), (21, 40486), (23, 40516), (25, 40528),

Gene: Minerva_57 Start: 45156, Stop: 45551, Start Num: 5

Candidate Starts for Minerva_57:

(Start: 5 @45156 has 40 MA's), (7, 45198), (8, 45210), (14, 45321), (17, 45366), (21, 45408), (24, 45441), (25, 45450), (26, 45462),

Gene: Nekros_49 Start: 42641, Stop: 43027, Start Num: 5

Candidate Starts for Nekros_49:

(Start: 5 @42641 has 40 MA's), (6, 42680), (8, 42695), (9, 42704), (17, 42851), (19, 42875), (21, 42893), (23, 42923), (25, 42935),

Gene: NihilNomen_50 Start: 43826, Stop: 44221, Start Num: 5

Candidate Starts for NihilNomen_50:

(Start: 5 @43826 has 40 MA's), (7, 43868), (8, 43880), (14, 43991), (17, 44036), (21, 44078), (24, 44111), (25, 44120), (26, 44132),

Gene: Odette_51 Start: 43068, Stop: 43442, Start Num: 5

Candidate Starts for Odette_51:

(Start: 5 @43068 has 40 MA's), (7, 43110), (8, 43122), (14, 43233), (17, 43278), (21, 43320), (24, 43353), (25, 43362), (26, 43374),

Gene: Omega_55 Start: 44873, Stop: 45259, Start Num: 5

Candidate Starts for Omega_55:

(Start: 5 @44873 has 40 MA's), (6, 44912), (8, 44927), (9, 44936), (17, 45083), (19, 45107), (21, 45125), (23, 45155), (25, 45167),

Gene: Optimus_56 Start: 44741, Stop: 45136, Start Num: 5

Candidate Starts for Optimus_56:

(Start: 5 @44741 has 40 MA's), (7, 44783), (8, 44795), (14, 44906), (17, 44951), (21, 44993), (24, 45026), (25, 45035), (26, 45047),

Gene: Phoebus_50 Start: 44027, Stop: 44422, Start Num: 5

Candidate Starts for Phoebus_50:

(Start: 5 @44027 has 40 MA's), (7, 44069), (8, 44081), (14, 44192), (17, 44237), (21, 44279), (24, 44312), (25, 44321), (26, 44333),

Gene: Porcelain_49 Start: 40234, Stop: 40620, Start Num: 5

Candidate Starts for Porcelain_49:

(Start: 5 @40234 has 40 MA's), (6, 40273), (8, 40288), (9, 40297), (17, 40444), (19, 40468), (21, 40486), (23, 40516), (25, 40528),

Gene: Pound_53 Start: 45604, Stop: 45999, Start Num: 5

Candidate Starts for Pound_53:

(Start: 5 @45604 has 40 MA's), (7, 45646), (8, 45658), (14, 45769), (17, 45814), (21, 45856), (24, 45889), (25, 45898), (26, 45910),

Gene: Rearden_45 Start: 39845, Stop: 40225, Start Num: 5

Candidate Starts for Rearden_45:

(Start: 5 @39845 has 40 MA's), (6, 39884), (8, 39899), (10, 39929), (16, 40052), (17, 40055), (19, 40079), (21, 40097), (23, 40127), (25, 40139),

Gene: Redno2_49 Start: 40812, Stop: 41186, Start Num: 5

Candidate Starts for Redno2_49:

(Start: 5 @40812 has 40 MA's), (6, 40851), (8, 40866), (9, 40875), (17, 41022), (19, 41046), (21, 41064), (23, 41094), (25, 41106),

Gene: Schatzie_48 Start: 42816, Stop: 43190, Start Num: 5

Candidate Starts for Schatzie_48:

(Start: 5 @42816 has 40 MA's), (7, 42858), (8, 42870), (14, 42981), (17, 43026), (21, 43068), (24, 43101), (25, 43110), (26, 43122),

Gene: Shaboozey_43 Start: 37604, Stop: 37990, Start Num: 5

Candidate Starts for Shaboozey_43:

(Start: 5 @37604 has 40 MA's), (6, 37643), (8, 37658), (9, 37667), (17, 37814), (19, 37838), (21, 37856), (23, 37886), (25, 37898),

Gene: Squint_49 Start: 40353, Stop: 40739, Start Num: 5

Candidate Starts for Squint_49:

(Start: 5 @40353 has 40 MA's), (6, 40392), (8, 40407), (9, 40416), (17, 40563), (19, 40587), (21, 40605), (23, 40635), (25, 40647),

Gene: Superphikiman_50 Start: 40425, Stop: 40811, Start Num: 5

Candidate Starts for Superphikiman_50:

(Start: 5 @40425 has 40 MA's), (6, 40464), (8, 40479), (9, 40488), (17, 40635), (19, 40659), (21, 40677), (23, 40707), (25, 40719),

Gene: TPA4_34 Start: 30182, Stop: 30700, Start Num: 3

Candidate Starts for TPA4_34:

(1, 29915), (2, 30071), (3, 30182), (13, 30368), (15, 30401), (22, 30488), (27, 30530), (28, 30572), (29, 30614), (30, 30626), (31, 30635), (32, 30692),

Gene: Thibault_44 Start: 40998, Stop: 41384, Start Num: 5

Candidate Starts for Thibault_44:

(Start: 5 @40998 has 40 MA's), (8, 41052), (9, 41061), (17, 41208), (19, 41232), (21, 41250), (23, 41280), (25, 41292),

Gene: ThreeRngTarjay_49 Start: 43904, Stop: 44299, Start Num: 5

Candidate Starts for ThreeRngTarjay_49:

(Start: 5 @43904 has 40 MA's), (7, 43946), (8, 43958), (14, 44069), (17, 44114), (21, 44156), (24, 44189), (25, 44198),

Gene: Wanda_57 Start: 43615, Stop: 44010, Start Num: 5

Candidate Starts for Wanda_57:

(Start: 5 @43615 has 40 MA's), (7, 43657), (8, 43669), (14, 43780), (17, 43825), (21, 43867), (24, 43900), (25, 43909), (26, 43921),

Gene: Yeet_49 Start: 43036, Stop: 43431, Start Num: 5

Candidate Starts for Yeet_49:

(Start: 5 @43036 has 40 MA's), (7, 43078), (8, 43090), (14, 43201), (17, 43246), (21, 43288), (24, 43321), (25, 43330),

Gene: Zelink_52 Start: 44851, Stop: 45225, Start Num: 5

Candidate Starts for Zelink_52:

(Start: 5 @44851 has 40 MA's), (6, 44890), (8, 44905), (9, 44914), (17, 45061), (19, 45085), (21, 45103), (23, 45133), (25, 45145),