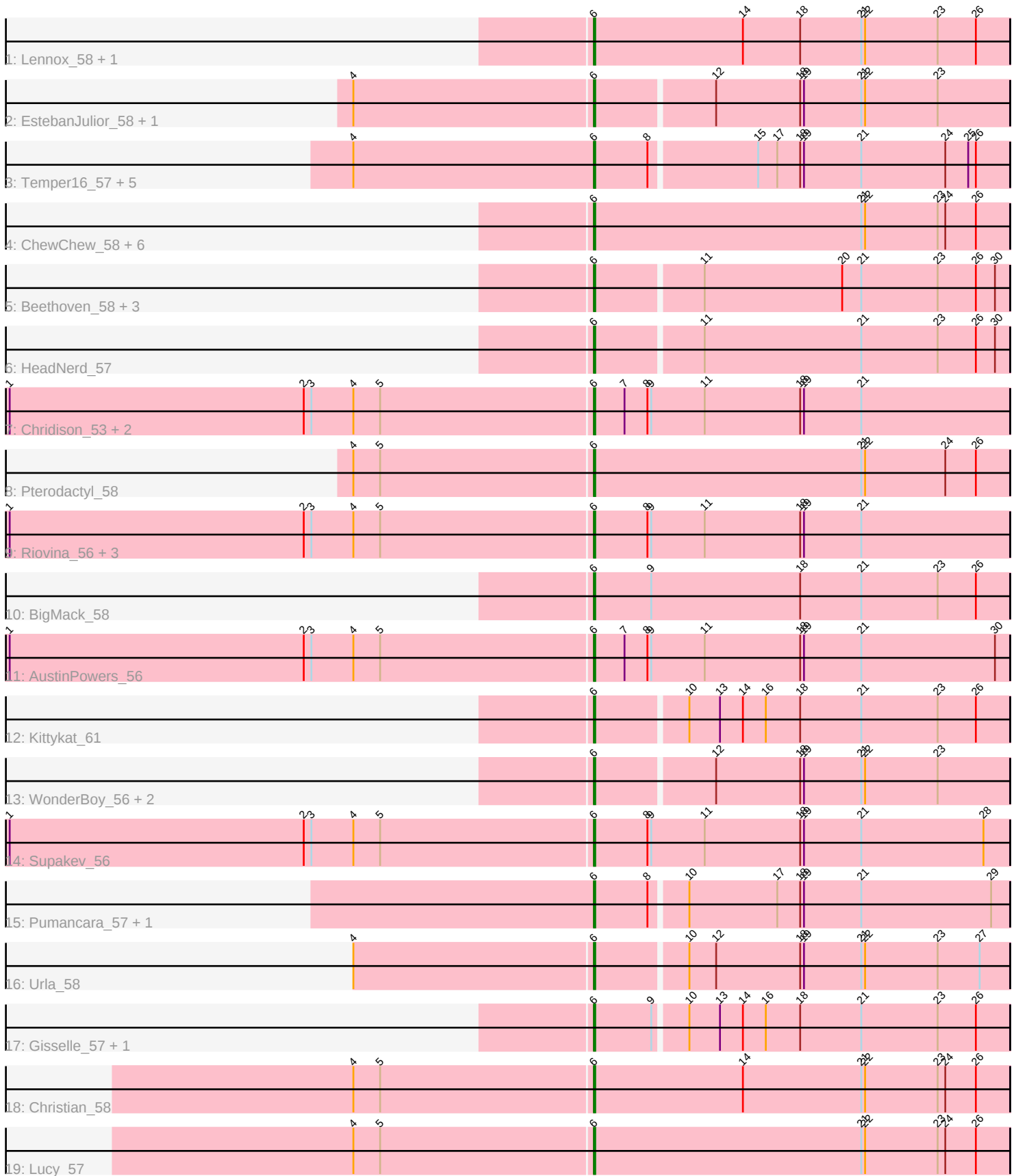


# Pham 330986



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 330986 Report

This analysis was run 09/05/26 on database version 662.

Pham number 330986 has 44 members, 0 are drafts.

Phages represented in each track:

- Track 1 : Lennox\_58, PitaDog\_58
- Track 2 : EstebanJulior\_58, MamaPearl\_58
- Track 3 : Temper16\_57, Sergei\_57, Maria1952\_56, Daiboju\_57, KingBob\_57, Herb\_57
- Track 4 : ChewChew\_58, LilStuart\_57, CristinaYang\_58, Bodacious\_58, Lasagna\_56, DrRobert\_56, Nancia\_58
- Track 5 : Beethoven\_58, Bennie\_58, Moki\_57, Huckleberry\_57
- Track 6 : HeadNerd\_57
- Track 7 : Chridison\_53, HunterDalle\_56, Vulture\_56
- Track 8 : Pterodactyl\_58
- Track 9 : Riovina\_56, OMalley\_56, Eunoia\_58, Aledel\_56
- Track 10 : BigMack\_58
- Track 11 : AustinPowers\_56
- Track 12 : Kittykat\_61
- Track 13 : WonderBoy\_56, OurGirlNessie\_56, Makoto\_57
- Track 14 : Supakev\_56
- Track 15 : Pumancara\_57, PinkFriday\_57
- Track 16 : Urla\_58
- Track 17 : Gisselle\_57, DreamTeam\_57
- Track 18 : Christian\_58
- Track 19 : Lucy\_57

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

The start number called the most often in the published annotations is 6, it was called in 44 of the 44 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Aledel\_56, AustinPowers\_56, Beethoven\_58, Bennie\_58, BigMack\_58, Bodacious\_58, ChewChew\_58, Chridison\_53, Christian\_58, CristinaYang\_58, Daiboju\_57, DrRobert\_56, DreamTeam\_57, EstebanJulior\_58, Eunoia\_58, Gisselle\_57, HeadNerd\_57, Herb\_57, Huckleberry\_57, HunterDalle\_56, KingBob\_57, Kittykat\_61, Lasagna\_56, Lennox\_58, LilStuart\_57, Lucy\_57, Makoto\_57, MamaPearl\_58, Maria1952\_56, Moki\_57, Nancia\_58, OMalley\_56,

OurGirlNessie\_56, PinkFriday\_57, PitaDog\_58, Pterodactyl\_58, Pumancara\_57, Riovina\_56, Sergei\_57, Supakev\_56, Temper16\_57, Urla\_58, Vulture\_56, WonderBoy\_56,

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 6:

- Found in 44 of 44 ( 100.0% ) of genes in pham
- Manual Annotations of this start: 44 of 44
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Aledel\_56 (AK), AustinPowers\_56 (AK), Beethoven\_58 (AK), Bennie\_58 (AK), BigMack\_58 (AK), Bodacious\_58 (AK), ChewChew\_58 (AK), Chridison\_53 (AK), Christian\_58 (AK), CristinaYang\_58 (AK), Daiboju\_57 (AK), DrRobert\_56 (AK), DreamTeam\_57 (AK), EstebanJulior\_58 (AK), Eunoia\_58 (AK), Gisselle\_57 (AK), HeadNerd\_57 (AK), Herb\_57 (AK), Huckleberry\_57 (AK), HunterDalle\_56 (AK), KingBob\_57 (AK), Kittykat\_61 (AK), Lasagna\_56 (AK), Lennox\_58 (AK), LilStuart\_57 (AK), Lucy\_57 (AK), Makoto\_57 (AK), MamaPearl\_58 (AK), Maria1952\_56 (AK), Moki\_57 (AK), Nancia\_58 (AK), OMalley\_56 (AK), OurGirlNessie\_56 (AK), PinkFriday\_57 (AK), PitaDog\_58 (AK), Pterodactyl\_58 (AK), Pumancara\_57 (AK), Riovina\_56 (AK), Sergei\_57 (AK), Supakev\_56 (AK), Temper16\_57 (AK), Urla\_58 (AK), Vulture\_56 (AK), WonderBoy\_56 (AK),

### Summary by clusters:

There is one cluster represented in this pham: AK

Info for manual annotations of cluster AK:

- Start number 6 was manually annotated 44 times for cluster AK.

### Gene Information:

Gene: Aledel\_56 Start: 42348, Stop: 42674, Start Num: 6

Candidate Starts for Aledel\_56:

(1, 41892), (2, 42123), (3, 42129), (4, 42162), (5, 42183), (Start: 6 @42348 has 44 MA's), (8, 42390), (9, 42393), (11, 42435), (18, 42510), (19, 42513), (21, 42558),

Gene: AustinPowers\_56 Start: 42370, Stop: 42696, Start Num: 6

Candidate Starts for AustinPowers\_56:

(1, 41914), (2, 42145), (3, 42151), (4, 42184), (5, 42205), (Start: 6 @42370 has 44 MA's), (7, 42394), (8, 42412), (9, 42415), (11, 42457), (18, 42532), (19, 42535), (21, 42580), (30, 42685),

Gene: Beethoven\_58 Start: 42471, Stop: 42791, Start Num: 6

Candidate Starts for Beethoven\_58:

(Start: 6 @42471 has 44 MA's), (11, 42552), (20, 42660), (21, 42675), (23, 42735), (26, 42765), (30, 42780),

Gene: Bennie\_58 Start: 41611, Stop: 41931, Start Num: 6

Candidate Starts for Bennie\_58:

(Start: 6 @41611 has 44 MA's), (11, 41692), (20, 41800), (21, 41815), (23, 41875), (26, 41905), (30, 41920),

Gene: BigMack\_58 Start: 42060, Stop: 42386, Start Num: 6

Candidate Starts for BigMack\_58:

(Start: 6 @42060 has 44 MA's), (9, 42105), (18, 42222), (21, 42270), (23, 42330), (26, 42360),

Gene: Bodacious\_58 Start: 42033, Stop: 42359, Start Num: 6

Candidate Starts for Bodacious\_58:

(Start: 6 @42033 has 44 MA's), (21, 42243), (22, 42246), (23, 42303), (24, 42309), (26, 42333),

Gene: ChewChew\_58 Start: 42163, Stop: 42489, Start Num: 6

Candidate Starts for ChewChew\_58:

(Start: 6 @42163 has 44 MA's), (21, 42373), (22, 42376), (23, 42433), (24, 42439), (26, 42463),

Gene: Chridison\_53 Start: 41626, Stop: 41952, Start Num: 6

Candidate Starts for Chridison\_53:

(1, 41170), (2, 41401), (3, 41407), (4, 41440), (5, 41461), (Start: 6 @41626 has 44 MA's), (7, 41650), (8, 41668), (9, 41671), (11, 41713), (18, 41788), (19, 41791), (21, 41836),

Gene: Christian\_58 Start: 41875, Stop: 42201, Start Num: 6

Candidate Starts for Christian\_58:

(4, 41689), (5, 41710), (Start: 6 @41875 has 44 MA's), (14, 41992), (21, 42085), (22, 42088), (23, 42145), (24, 42151), (26, 42175),

Gene: CristinaYang\_58 Start: 42160, Stop: 42486, Start Num: 6

Candidate Starts for CristinaYang\_58:

(Start: 6 @42160 has 44 MA's), (21, 42370), (22, 42373), (23, 42430), (24, 42436), (26, 42460),

Gene: Daiboju\_57 Start: 42745, Stop: 43065, Start Num: 6

Candidate Starts for Daiboju\_57:

(4, 42556), (Start: 6 @42745 has 44 MA's), (8, 42787), (15, 42868), (17, 42883), (18, 42901), (19, 42904), (21, 42949), (24, 43015), (25, 43033), (26, 43039),

Gene: DrRobert\_56 Start: 41394, Stop: 41720, Start Num: 6

Candidate Starts for DrRobert\_56:

(Start: 6 @41394 has 44 MA's), (21, 41604), (22, 41607), (23, 41664), (24, 41670), (26, 41694),

Gene: DreamTeam\_57 Start: 41776, Stop: 42096, Start Num: 6

Candidate Starts for DreamTeam\_57:

(Start: 6 @41776 has 44 MA's), (9, 41821), (10, 41845), (13, 41869), (14, 41887), (16, 41905), (18, 41932), (21, 41980), (23, 42040), (26, 42070),

Gene: EstebanJulior\_58 Start: 42553, Stop: 42873, Start Num: 6

Candidate Starts for EstebanJulior\_58:

(4, 42367), (Start: 6 @42553 has 44 MA's), (12, 42643), (18, 42709), (19, 42712), (21, 42757), (22, 42760), (23, 42817),

Gene: Eunoia\_58 Start: 43025, Stop: 43351, Start Num: 6

Candidate Starts for Eunoia\_58:

(1, 42569), (2, 42800), (3, 42806), (4, 42839), (5, 42860), (Start: 6 @43025 has 44 MA's), (8, 43067), (9, 43070), (11, 43112), (18, 43187), (19, 43190), (21, 43235),

Gene: Gisselle\_57 Start: 41776, Stop: 42096, Start Num: 6

Candidate Starts for Gisselle\_57:

(Start: 6 @41776 has 44 MA's), (9, 41821), (10, 41845), (13, 41869), (14, 41887), (16, 41905), (18, 41932), (21, 41980), (23, 42040), (26, 42070),

Gene: HeadNerd\_57 Start: 41505, Stop: 41825, Start Num: 6

Candidate Starts for HeadNerd\_57:

(Start: 6 @41505 has 44 MA's), (11, 41586), (21, 41709), (23, 41769), (26, 41799), (30, 41814),

Gene: Herb\_57 Start: 42744, Stop: 43064, Start Num: 6

Candidate Starts for Herb\_57:

(4, 42555), (Start: 6 @42744 has 44 MA's), (8, 42786), (15, 42867), (17, 42882), (18, 42900), (19, 42903), (21, 42948), (24, 43014), (25, 43032), (26, 43038),

Gene: Huckleberry\_57 Start: 41509, Stop: 41829, Start Num: 6

Candidate Starts for Huckleberry\_57:

(Start: 6 @41509 has 44 MA's), (11, 41590), (20, 41698), (21, 41713), (23, 41773), (26, 41803), (30, 41818),

Gene: HunterDalle\_56 Start: 41947, Stop: 42273, Start Num: 6

Candidate Starts for HunterDalle\_56:

(1, 41491), (2, 41722), (3, 41728), (4, 41761), (5, 41782), (Start: 6 @41947 has 44 MA's), (7, 41971), (8, 41989), (9, 41992), (11, 42034), (18, 42109), (19, 42112), (21, 42157),

Gene: KingBob\_57 Start: 42745, Stop: 43065, Start Num: 6

Candidate Starts for KingBob\_57:

(4, 42556), (Start: 6 @42745 has 44 MA's), (8, 42787), (15, 42868), (17, 42883), (18, 42901), (19, 42904), (21, 42949), (24, 43015), (25, 43033), (26, 43039),

Gene: Kittykat\_61 Start: 42290, Stop: 42610, Start Num: 6

Candidate Starts for Kittykat\_61:

(Start: 6 @42290 has 44 MA's), (10, 42359), (13, 42383), (14, 42401), (16, 42419), (18, 42446), (21, 42494), (23, 42554), (26, 42584),

Gene: Lasagna\_56 Start: 41396, Stop: 41722, Start Num: 6

Candidate Starts for Lasagna\_56:

(Start: 6 @41396 has 44 MA's), (21, 41606), (22, 41609), (23, 41666), (24, 41672), (26, 41696),

Gene: Lennox\_58 Start: 41881, Stop: 42207, Start Num: 6

Candidate Starts for Lennox\_58:

(Start: 6 @41881 has 44 MA's), (14, 41998), (18, 42043), (21, 42091), (22, 42094), (23, 42151), (26, 42181),

Gene: LilStuart\_57 Start: 41744, Stop: 42070, Start Num: 6

Candidate Starts for LilStuart\_57:

(Start: 6 @41744 has 44 MA's), (21, 41954), (22, 41957), (23, 42014), (24, 42020), (26, 42044),

Gene: Lucy\_57 Start: 41739, Stop: 42065, Start Num: 6

Candidate Starts for Lucy\_57:

(4, 41553), (5, 41574), (Start: 6 @41739 has 44 MA's), (21, 41949), (22, 41952), (23, 42009), (24, 42015), (26, 42039),

Gene: Makoto\_57 Start: 41637, Stop: 41957, Start Num: 6

Candidate Starts for Makoto\_57:

(Start: 6 @41637 has 44 MA's), (12, 41727), (18, 41793), (19, 41796), (21, 41841), (22, 41844), (23, 41901),

Gene: MamaPearl\_58 Start: 42553, Stop: 42873, Start Num: 6

Candidate Starts for MamaPearl\_58:

(4, 42367), (Start: 6 @42553 has 44 MA's), (12, 42643), (18, 42709), (19, 42712), (21, 42757), (22, 42760), (23, 42817),

Gene: Maria1952\_56 Start: 42744, Stop: 43064, Start Num: 6

Candidate Starts for Maria1952\_56:

(4, 42555), (Start: 6 @42744 has 44 MA's), (8, 42786), (15, 42867), (17, 42882), (18, 42900), (19, 42903), (21, 42948), (24, 43014), (25, 43032), (26, 43038),

Gene: Moki\_57 Start: 41698, Stop: 42018, Start Num: 6

Candidate Starts for Moki\_57:

(Start: 6 @41698 has 44 MA's), (11, 41779), (20, 41887), (21, 41902), (23, 41962), (26, 41992), (30, 42007),

Gene: Nancia\_58 Start: 42032, Stop: 42358, Start Num: 6

Candidate Starts for Nancia\_58:

(Start: 6 @42032 has 44 MA's), (21, 42242), (22, 42245), (23, 42302), (24, 42308), (26, 42332),

Gene: OMalley\_56 Start: 42348, Stop: 42674, Start Num: 6

Candidate Starts for OMalley\_56:

(1, 41892), (2, 42123), (3, 42129), (4, 42162), (5, 42183), (Start: 6 @42348 has 44 MA's), (8, 42390), (9, 42393), (11, 42435), (18, 42510), (19, 42513), (21, 42558),

Gene: OurGirlNessie\_56 Start: 41361, Stop: 41681, Start Num: 6

Candidate Starts for OurGirlNessie\_56:

(Start: 6 @41361 has 44 MA's), (12, 41451), (18, 41517), (19, 41520), (21, 41565), (22, 41568), (23, 41625),

Gene: PinkFriday\_57 Start: 41994, Stop: 42314, Start Num: 6

Candidate Starts for PinkFriday\_57:

(Start: 6 @41994 has 44 MA's), (8, 42036), (10, 42063), (17, 42132), (18, 42150), (19, 42153), (21, 42198), (29, 42300),

Gene: PitaDog\_58 Start: 41757, Stop: 42083, Start Num: 6

Candidate Starts for PitaDog\_58:

(Start: 6 @41757 has 44 MA's), (14, 41874), (18, 41919), (21, 41967), (22, 41970), (23, 42027), (26, 42057),

Gene: Pterodactyl\_58 Start: 41998, Stop: 42324, Start Num: 6

Candidate Starts for Pterodactyl\_58:

(4, 41812), (5, 41833), (Start: 6 @41998 has 44 MA's), (21, 42208), (22, 42211), (24, 42274), (26, 42298),

Gene: Pumancara\_57 Start: 41658, Stop: 41978, Start Num: 6

Candidate Starts for Pumancara\_57:

(Start: 6 @41658 has 44 MA's), (8, 41700), (10, 41727), (17, 41796), (18, 41814), (19, 41817), (21, 41862), (29, 41964),

Gene: Riovina\_56 Start: 42348, Stop: 42674, Start Num: 6

Candidate Starts for Riovina\_56:

(1, 41892), (2, 42123), (3, 42129), (4, 42162), (5, 42183), (Start: 6 @42348 has 44 MA's), (8, 42390), (9, 42393), (11, 42435), (18, 42510), (19, 42513), (21, 42558),

Gene: Sergei\_57 Start: 42745, Stop: 43065, Start Num: 6

Candidate Starts for Sergei\_57:

(4, 42556), (Start: 6 @42745 has 44 MA's), (8, 42787), (15, 42868), (17, 42883), (18, 42901), (19, 42904), (21, 42949), (24, 43015), (25, 43033), (26, 43039),

Gene: Supakev\_56 Start: 42375, Stop: 42701, Start Num: 6

Candidate Starts for Supakev\_56:

(1, 41919), (2, 42150), (3, 42156), (4, 42189), (5, 42210), (Start: 6 @42375 has 44 MA's), (8, 42417), (9, 42420), (11, 42462), (18, 42537), (19, 42540), (21, 42585), (28, 42681),

Gene: Temper16\_57 Start: 42745, Stop: 43065, Start Num: 6

Candidate Starts for Temper16\_57:

(4, 42556), (Start: 6 @42745 has 44 MA's), (8, 42787), (15, 42868), (17, 42883), (18, 42901), (19, 42904), (21, 42949), (24, 43015), (25, 43033), (26, 43039),

Gene: Urla\_58 Start: 42698, Stop: 43018, Start Num: 6

Candidate Starts for Urla\_58:

(4, 42512), (Start: 6 @42698 has 44 MA's), (10, 42767), (12, 42788), (18, 42854), (19, 42857), (21, 42902), (22, 42905), (23, 42962), (27, 42995),

Gene: Vulture\_56 Start: 41947, Stop: 42273, Start Num: 6

Candidate Starts for Vulture\_56:

(1, 41491), (2, 41722), (3, 41728), (4, 41761), (5, 41782), (Start: 6 @41947 has 44 MA's), (7, 41971), (8, 41989), (9, 41992), (11, 42034), (18, 42109), (19, 42112), (21, 42157),

Gene: WonderBoy\_56 Start: 41465, Stop: 41785, Start Num: 6

Candidate Starts for WonderBoy\_56:

(Start: 6 @41465 has 44 MA's), (12, 41555), (18, 41621), (19, 41624), (21, 41669), (22, 41672), (23, 41729),