



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 208814 Report

This analysis was run 02/22/25 on database version 588.

Pham number 208814 has 35 members, 4 are drafts.

Phages represented in each track:

- Track 1 : Kheth_77, MasterPo_78, Kaleb_78, Allegro_77
- Track 2 : Rhinoforte_77, Kolhan_78, Faze9_76, Bananafish_78, Lars_78, LilSmirk_77, Tres_77, Rosebush_75, Phantasmagoria_76, Ares_77, FrenchFry_78, Opia_78, PrinceCharming_78, Glass_79, Holeinone_77, Tinciduntolum_78, Blocker23_77, Hedgerow_77, Brownie5_77, Eaglehorse_77, Calamitous_78, Boyle_77, Coffee_77, West99_77, Lephleur_77, Arbitr_74, LizLemon_77
- Track 3 : ItsyBitsy1_75, TA17A_80, Sabella_77
- Track 4 : Qyrzula_69

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 27 of the 31 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Allegro_77, Arbitr_74, Ares_77, Bananafish_78, Blocker23_77, Boyle_77, Brownie5_77, Calamitous_78, Coffee_77, Eaglehorse_77, Faze9_76, FrenchFry_78, Glass_79, Hedgerow_77, Holeinone_77, Kaleb_78, Kheth_77, Kolhan_78, Lars_78, Lephleur_77, LilSmirk_77, LizLemon_77, MasterPo_78, Opia_78, Phantasmagoria_76, PrinceCharming_78, Rhinoforte_77, Rosebush_75, Tinciduntolum_78, Tres_77, West99_77,

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

- ItsyBitsy1_75, Qyrzula_69, Sabella_77, TA17A_80,

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

-

Summary by start number:

Start 1:

- Found in 3 of 35 (8.6%) of genes in pham
- Manual Annotations of this start: 3 of 31
- Called 100.0% of time when present

- Phage (with cluster) where this start called: ItsyBitsy1_75 (B2), Sabella_77 (B2), TA17A_80 (B2),

Start 5:

- Found in 35 of 35 (100.0%) of genes in pham
- Manual Annotations of this start: 27 of 31
- Called 88.6% of time when present
- Phage (with cluster) where this start called: Allegro_77 (B2), Arbiter_74 (B2), Ares_77 (B2), Bananafish_78 (B2), Blocker23_77 (B2), Boyle_77 (B2), Brownie5_77 (B2), Calamitous_78 (B2), Coffee_77 (B2), Eaglehorse_77 (B2), Faze9_76 (B2), FrenchFry_78 (B2), Glass_79 (B2), Hedgerow_77 (B2), Holeinone_77 (B2), Kaleb_78 (B2), Kheth_77 (B2), Kolhan_78 (B2), Lars_78 (B2), Lephleur_77 (B2), LilSmirk_77 (B2), LizLemon_77 (B2), MasterPo_78 (B2), Opia_78 (B2), Phantasmagoria_76 (B2), PrinceCharming_78 (B2), Rhinoforte_77 (B2), Rosebush_75 (B2), Tinciduntolum_78 (B2), Tres_77 (B2), West99_77 (B2),

Start 7:

- Found in 35 of 35 (100.0%) of genes in pham
- Manual Annotations of this start: 1 of 31
- Called 2.9% of time when present
- Phage (with cluster) where this start called: Qyrzula_69 (B2),

Summary by clusters:

There is one cluster represented in this pham: B2

Info for manual annotations of cluster B2:

- Start number 1 was manually annotated 3 times for cluster B2.
- Start number 5 was manually annotated 27 times for cluster B2.
- Start number 7 was manually annotated 1 time for cluster B2.

Gene Information:

Gene: Allegro_77 Start: 61033, Stop: 60788, Start Num: 5

Candidate Starts for Allegro_77:

(Start: 5 @61033 has 27 MA's), (6, 61006), (Start: 7 @60982 has 1 MA's), (8, 60940), (9, 60931), (10, 60904), (11, 60871), (12, 60850),

Gene: Arbiter_74 Start: 61080, Stop: 60835, Start Num: 5

Candidate Starts for Arbiter_74:

(Start: 5 @61080 has 27 MA's), (Start: 7 @61029 has 1 MA's), (8, 60987), (9, 60978), (10, 60951), (11, 60918), (12, 60897),

Gene: Ares_77 Start: 61038, Stop: 60793, Start Num: 5

Candidate Starts for Ares_77:

(Start: 5 @61038 has 27 MA's), (Start: 7 @60987 has 1 MA's), (8, 60945), (9, 60936), (10, 60909), (11, 60876), (12, 60855),

Gene: Bananafish_78 Start: 60969, Stop: 60724, Start Num: 5

Candidate Starts for Bananafish_78:

(Start: 5 @60969 has 27 MA's), (Start: 7 @60918 has 1 MA's), (8, 60876), (9, 60867), (10, 60840), (11, 60807), (12, 60786),

Gene: Blocker23_77 Start: 61037, Stop: 60792, Start Num: 5

Candidate Starts for Blocker23_77:

(Start: 5 @61037 has 27 MA's), (Start: 7 @60986 has 1 MA's), (8, 60944), (9, 60935), (10, 60908), (11, 60875), (12, 60854),

Gene: Boyle_77 Start: 61087, Stop: 60836, Start Num: 5

Candidate Starts for Boyle_77:

(Start: 5 @61087 has 27 MA's), (Start: 7 @61030 has 1 MA's), (8, 60988), (9, 60979), (10, 60952), (11, 60919), (12, 60898),

Gene: Brownie5_77 Start: 61082, Stop: 60837, Start Num: 5

Candidate Starts for Brownie5_77:

(Start: 5 @61082 has 27 MA's), (Start: 7 @61031 has 1 MA's), (8, 60989), (9, 60980), (10, 60953), (11, 60920), (12, 60899),

Gene: Calamitous_78 Start: 60964, Stop: 60719, Start Num: 5

Candidate Starts for Calamitous_78:

(Start: 5 @60964 has 27 MA's), (Start: 7 @60913 has 1 MA's), (8, 60871), (9, 60862), (10, 60835), (11, 60802), (12, 60781),

Gene: Coffee_77 Start: 61075, Stop: 60830, Start Num: 5

Candidate Starts for Coffee_77:

(Start: 5 @61075 has 27 MA's), (Start: 7 @61024 has 1 MA's), (8, 60982), (9, 60973), (10, 60946), (11, 60913), (12, 60892),

Gene: Eaglehorse_77 Start: 60958, Stop: 60713, Start Num: 5

Candidate Starts for Eaglehorse_77:

(Start: 5 @60958 has 27 MA's), (Start: 7 @60907 has 1 MA's), (8, 60865), (9, 60856), (10, 60829), (11, 60796), (12, 60775),

Gene: Faze9_76 Start: 61096, Stop: 60851, Start Num: 5

Candidate Starts for Faze9_76:

(Start: 5 @61096 has 27 MA's), (Start: 7 @61045 has 1 MA's), (8, 61003), (9, 60994), (10, 60967), (11, 60934), (12, 60913),

Gene: FrenchFry_78 Start: 61089, Stop: 60844, Start Num: 5

Candidate Starts for FrenchFry_78:

(Start: 5 @61089 has 27 MA's), (Start: 7 @61038 has 1 MA's), (8, 60996), (9, 60987), (10, 60960), (11, 60927), (12, 60906),

Gene: Glass_79 Start: 61090, Stop: 60845, Start Num: 5

Candidate Starts for Glass_79:

(Start: 5 @61090 has 27 MA's), (Start: 7 @61039 has 1 MA's), (8, 60997), (9, 60988), (10, 60961), (11, 60928), (12, 60907),

Gene: Hedgerow_77 Start: 61047, Stop: 60802, Start Num: 5

Candidate Starts for Hedgerow_77:

(Start: 5 @61047 has 27 MA's), (Start: 7 @60996 has 1 MA's), (8, 60954), (9, 60945), (10, 60918), (11, 60885), (12, 60864),

Gene: Holeinone_77 Start: 60943, Stop: 60698, Start Num: 5

Candidate Starts for Holeinone_77:

(Start: 5 @60943 has 27 MA's), (Start: 7 @60892 has 1 MA's), (8, 60850), (9, 60841), (10, 60814), (11, 60781), (12, 60760),

Gene: ItsyBitsy1_75 Start: 61256, Stop: 60927, Start Num: 1

Candidate Starts for ItsyBitsy1_75:

(Start: 1 @61256 has 3 MA's), (2, 61247), (3, 61217), (4, 61214), (Start: 5 @61172 has 27 MA's), (6, 61145), (Start: 7 @61121 has 1 MA's), (8, 61079), (9, 61070), (10, 61043), (11, 61010), (12, 60989),

Gene: Kaleb_78 Start: 61093, Stop: 60848, Start Num: 5

Candidate Starts for Kaleb_78:

(Start: 5 @61093 has 27 MA's), (6, 61066), (Start: 7 @61042 has 1 MA's), (8, 61000), (9, 60991), (10, 60964), (11, 60931), (12, 60910),

Gene: Kheth_77 Start: 61004, Stop: 60759, Start Num: 5

Candidate Starts for Kheth_77:

(Start: 5 @61004 has 27 MA's), (6, 60977), (Start: 7 @60953 has 1 MA's), (8, 60911), (9, 60902), (10, 60875), (11, 60842), (12, 60821),

Gene: Kolhan_78 Start: 60984, Stop: 60739, Start Num: 5

Candidate Starts for Kolhan_78:

(Start: 5 @60984 has 27 MA's), (Start: 7 @60933 has 1 MA's), (8, 60891), (9, 60882), (10, 60855), (11, 60822), (12, 60801),

Gene: Lars_78 Start: 61068, Stop: 60823, Start Num: 5

Candidate Starts for Lars_78:

(Start: 5 @61068 has 27 MA's), (Start: 7 @61017 has 1 MA's), (8, 60975), (9, 60966), (10, 60939), (11, 60906), (12, 60885),

Gene: Lephleur_77 Start: 60927, Stop: 60682, Start Num: 5

Candidate Starts for Lephleur_77:

(Start: 5 @60927 has 27 MA's), (Start: 7 @60876 has 1 MA's), (8, 60834), (9, 60825), (10, 60798), (11, 60765), (12, 60744),

Gene: LilSmirk_77 Start: 60957, Stop: 60712, Start Num: 5

Candidate Starts for LilSmirk_77:

(Start: 5 @60957 has 27 MA's), (Start: 7 @60906 has 1 MA's), (8, 60864), (9, 60855), (10, 60828), (11, 60795), (12, 60774),

Gene: LizLemon_77 Start: 61095, Stop: 60850, Start Num: 5

Candidate Starts for LizLemon_77:

(Start: 5 @61095 has 27 MA's), (Start: 7 @61044 has 1 MA's), (8, 61002), (9, 60993), (10, 60966), (11, 60933), (12, 60912),

Gene: MasterPo_78 Start: 60965, Stop: 60720, Start Num: 5

Candidate Starts for MasterPo_78:

(Start: 5 @60965 has 27 MA's), (6, 60938), (Start: 7 @60914 has 1 MA's), (8, 60872), (9, 60863), (10, 60836), (11, 60803), (12, 60782),

Gene: Opia_78 Start: 60988, Stop: 60743, Start Num: 5

Candidate Starts for Opia_78:

(Start: 5 @60988 has 27 MA's), (Start: 7 @60937 has 1 MA's), (8, 60895), (9, 60886), (10, 60859), (11, 60826), (12, 60805),

Gene: Phantasmagoria_76 Start: 60971, Stop: 60726, Start Num: 5

Candidate Starts for Phantasmagoria_76:

(Start: 5 @60971 has 27 MA's), (Start: 7 @60920 has 1 MA's), (8, 60878), (9, 60869), (10, 60842), (11, 60809), (12, 60788),

Gene: PrinceCharming_78 Start: 61017, Stop: 60772, Start Num: 5

Candidate Starts for PrinceCharming_78:

(Start: 5 @61017 has 27 MA's), (Start: 7 @60966 has 1 MA's), (8, 60924), (9, 60915), (10, 60888), (11, 60855), (12, 60834),

Gene: Qyrzula_69 Start: 61059, Stop: 60865, Start Num: 7

Candidate Starts for Qyrzula_69:

(Start: 5 @61110 has 27 MA's), (Start: 7 @61059 has 1 MA's), (8, 61017), (9, 61008), (10, 60981), (11, 60948), (12, 60927),

Gene: Rhinoforte_77 Start: 61006, Stop: 60761, Start Num: 5

Candidate Starts for Rhinoforte_77:

(Start: 5 @61006 has 27 MA's), (Start: 7 @60955 has 1 MA's), (8, 60913), (9, 60904), (10, 60877), (11, 60844), (12, 60823),

Gene: Rosebush_75 Start: 61079, Stop: 60834, Start Num: 5

Candidate Starts for Rosebush_75:

(Start: 5 @61079 has 27 MA's), (Start: 7 @61028 has 1 MA's), (8, 60986), (9, 60977), (10, 60950), (11, 60917), (12, 60896),

Gene: Sabella_77 Start: 61001, Stop: 60672, Start Num: 1

Candidate Starts for Sabella_77:

(Start: 1 @61001 has 3 MA's), (2, 60992), (3, 60962), (4, 60959), (Start: 5 @60917 has 27 MA's), (6, 60890), (Start: 7 @60866 has 1 MA's), (8, 60824), (9, 60815), (10, 60788), (11, 60755), (12, 60734),

Gene: TA17A_80 Start: 61007, Stop: 60678, Start Num: 1

Candidate Starts for TA17A_80:

(Start: 1 @61007 has 3 MA's), (2, 60998), (3, 60968), (4, 60965), (Start: 5 @60923 has 27 MA's), (6, 60896), (Start: 7 @60872 has 1 MA's), (8, 60830), (9, 60821), (10, 60794), (11, 60761), (12, 60740),

Gene: Tinciduntolum_78 Start: 61081, Stop: 60836, Start Num: 5

Candidate Starts for Tinciduntolum_78:

(Start: 5 @61081 has 27 MA's), (Start: 7 @61030 has 1 MA's), (8, 60988), (9, 60979), (10, 60952), (11, 60919), (12, 60898),

Gene: Tres_77 Start: 60938, Stop: 60693, Start Num: 5

Candidate Starts for Tres_77:

(Start: 5 @60938 has 27 MA's), (Start: 7 @60887 has 1 MA's), (8, 60845), (9, 60836), (10, 60809), (11, 60776), (12, 60755),

Gene: West99_77 Start: 61103, Stop: 60858, Start Num: 5

Candidate Starts for West99_77:

(Start: 5 @61103 has 27 MA's), (Start: 7 @61052 has 1 MA's), (8, 61010), (9, 61001), (10, 60974), (11, 60941), (12, 60920),