

Web-Store-DNA Agent Catalog

Every published gene — role, risk, and job description

28 genes on the web-store AgentForge project.

Phase 0 kit: observe and draft — not a live storefront launcher yet.

AUDIENCE Operators · agent authors · storefront builders

30 PUBLISHED GENES	7 WORKFLOWS	6 JUDGE GENES	9 GATEWAY GENES
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- 01 Web-Store-DNA is AgentForge Pattern A — genes live in the consumer repo and publish into the web-store project; nothing lands in AF backend/.
- 02 Phase 0 reductions are intentional: listing, content, and CX pipelines stop at judged drafts. Live publish and store-bootstrap are later phases.
- 03 Judge density is load-bearing: quarantine, claims, disclosure, originality, and reply safety sit between drafts and any irreversible action.

SECTION I

How to read this catalog

Genes are jobs. Chromosomes (workflows) compose them.

- Family groups follow the capability namespace: ingest, cognition, produce, judge, expert, memory, act.
- Risk is the AgentForge risk_level on the gene — high genes need operator attention even when Phase 0 keeps them draft-only.
- Tools show allowed tool surfaces. Empty tools means pure LLM (cognition / draft genes).
- Pair this PDF with the Operator Guide for the bootstrap sequence and with the Architecture sample for genome theory.

SECTION II

Ingest (gateway)

7 published gene(s).

Ingest (gateway)

Gene	Role	Model	Risk	What it does
wstore-fetch-social	gateway	haiku	medium	Read-only ingest of organic social performance plus the two preconditions every publish gene depends on: remaining API...
wstore-monitor-citation	gateway	sonnet	medium	Runs a fixed corpus of shopper-intent queries against public AI search surfaces and records whether the storefront's pr...
wstore-probe-storefront	gateway	haiku	medium	Probes a storefront's public agent-discovery surface — /.well-known/ucp capability profile, storefront MCP endpoints, s...
wstore-pull-adspend	gateway	haiku	medium	Read-only ingest of paid-media spend and delivery metrics across ad platforms, plus the live settings of every active c...
wstore-pull-analytics	gateway	haiku	medium	Read-only analytics ingest across two sources with non-overlapping authority: the commerce platform for money and order...
wstore-pull-orders	gateway	haiku	medium	Read-only ingest of orders, returns, subscriptions, and payment disputes from the commerce platform and the payment pro...
wstore-pull-tickets	gateway	haiku	medium	Read-only ingest of customer-service threads and product reviews. Everything it returns is customer-authored and theref...

- wstore-fetch-social — Read-only ingest of organic social performance plus the two preconditions every publish gene depends on: remaining API quota per channel and the account's actu... (capability wstore.ingest.social; tools: WebFetch)
- wstore-monitor-citation — Runs a fixed corpus of shopper-intent queries against public AI search surfaces and records whether the storefront's products are cited, what the assistant sai... (capability wstore.ingest.geo; tools: WebSearch)
- wstore-probe-storefront — Probes a storefront's public agent-discovery surface — /.well-known/ucp capability profile, storefront MCP endpoints, sitemap, robots, and Product structured d... (capability wstore.ingest.storefront; tools: WebFetch)
- wstore-pull-adspend — Read-only ingest of paid-media spend and delivery metrics across ad platforms, plus the live settings of every active campaign so drift is detectable. Platform... (capability wstore.ingest.adspend; tools: WebFetch)
- wstore-pull-analytics — Read-only analytics ingest across two sources with non-overlapping authority: the commerce platform for money and orders, the analytics property for sessions a... (capability wstore.ingest.analytics; tools: http_fetch)
- wstore-pull-orders — Read-only ingest of orders, returns, subscriptions, and payment disputes from the commerce platform and the payment provider. Buyer-authored fields — notes, gi... (capability wstore.ingest.order; tools: http_fetch)
- wstore-pull-tickets — Read-only ingest of customer-service threads and product reviews. Everything it returns is customer-authored and therefore tagged trust:customer — this gene is... (capability wstore.ingest.ticket; tools: WebFetch)

SECTION III

Cognition

6 published gene(s).

Cognition

Gene	Role	Model	Risk	What it does
wstore-classify	router	haiku	low	Pure-LLM router gene that labels each ingest-envelope item against a taxonomy supplied by a project skill, assigning la...
wstore-correlate	aggregator	sonnet	low	Fan-in aggregator that joins outputs across store sources — orders, analytics, ad spend, social, reviews, citations — i...
wstore-explain-anomaly	producer	sonnet	low	Takes anomalies already detected deterministically and proposes ranked causal hypotheses with the evidence that would c...
wstore-extract	producer	sonnet	low	Structured-data workhorse: given an item and a target JSON Schema, returns an instance of that schema. In product-attri...
wstore-rank	producer	haiku	low	Orders a candidate set against stated criteria and returns scores with reasons — SKU priority, content candidates, anom...
wstore-summarize	producer	haiku	low	Audience-aware summarizer for store activity. Condenses envelope items or upstream briefs into a summary, key points, a...

- wstore-classify — Pure-LLM router gene that labels each ingest-envelope item against a taxonomy supplied by a project skill, assigning label, urgency, confidence, and a one-line... (capability wstore.cognition.classify; tools: none (LLM-only))
- wstore-correlate — Fan-in aggregator that joins outputs across store sources — orders, analytics, ad spend, social, reviews, citations — into one coherent picture, naming where t... (capability wstore.cognition.correlate; tools: none (LLM-only))
- wstore-explain-anomaly — Takes anomalies already detected deterministically and proposes ranked causal hypotheses with the evidence that would confirm or refute each. Emits hypotheses... (capability wstore.cognition.anomalycause; tools: none (LLM-only))
- wstore-extract — Structured-data workhorse: given an item and a target JSON Schema, returns an instance of that schema. In product-attribute mode it emits a claims manifest — e... (capability wstore.cognition.extract; tools: none (LLM-only))
- wstore-rank — Orders a candidate set against stated criteria and returns scores with reasons — SKU priority, content candidates, anomaly severity, ticket queue order. Pure L... (capability wstore.cognition.rank; tools: none (LLM-only))
- wstore-summarize — Audience-aware summarizer for store activity. Condenses envelope items or upstream briefs into a summary, key points, and open questions at a requested length.... (capability wstore.cognition.summarize; tools: none (LLM-only))

SECTION IV

Production

4 published gene(s).

Production

Gene	Role	Model	Risk	What it does
wstore-compose-digest	aggregator	haiku	low	Assembles the owner-facing digest from upstream gene outputs: a decision-first summary that leads with what needs a hum...
wstore-draft-listing	producer	sonnet	low	Drafts per-channel product listing copy and structured attributes from a sourced attribute record, carrying the claims...
wstore-draft-post	producer	sonnet	low	Drafts per-channel social copy and story/short-form scripts from a content plan, in the brand voice, with mandatory per...
wstore-draft-reply	producer	sonnet	low	Drafts a customer-service reply grounded strictly in retrieved order and policy evidence, with a citation per factual c...

- wstore-compose-digest — Assembles the owner-facing digest from upstream gene outputs: a decision-first summary that leads with what needs a human today, then what changed, then the ev... (capability wstore.produce.digest; tools: none (LLM-only))
- wstore-draft-listing — Drafts per-channel product listing copy and structured attributes from a sourced attribute record, carrying the claims manifest through so every factual statem... (capability wstore.produce.listing; tools: none (LLM-only))
- wstore-draft-post — Drafts per-channel social copy and story/short-form scripts from a content plan, in the brand voice, with mandatory per-channel variance. Produces drafts only... (capability wstore.produce.postcopy; tools: none (LLM-only))
- wstore-draft-reply — Drafts a customer-service reply grounded strictly in retrieved order and policy evidence, with a citation per factual claim and an explicit list of any commitm... (capability wstore.produce.customerreply; tools: none (LLM-only))

SECTION V

Judgment

6 published gene(s).

Judgment

Gene	Role	Model	Risk	What it does
wstore-judge-claims	judge	haiku	medium	Blocking judge for product and marketing claims. Validates that every factual assertion in drafted copy is backed by a...
wstore-judge-disclosure	judge	sonnet	medium	Per-channel AI-disclosure judge. Decides what disclosure a given asset requires on each destination channel — the regim...
wstore-judge-originality	judge	sonnet	medium	Thinness and near-duplicate screen for catalog copy and creative. Blocks scaled-content patterns — templated copy varyi...
wstore-judge-reply	judge	sonnet	medium	Blocking judge for customer-facing replies. Rejects any reply that asserts an uncited fact, makes a commitment the stor...
wstore-judge-visual	judge	sonnet	medium	Blocking visual-quality judge for the Hydrogen storefront. Consumes Impeccable detect findings (deterministic anti-slop...
wstore-scan-injectionpayload	judge	sonnet	medium	Quarantine gate for attacker-controllable text. Scans every non-merchant envelope item — product pages, reviews, custom...

- wstore-judge-claims — Blocking judge for product and marketing claims. Validates that every factual assertion in drafted copy is backed by a sourced attribute record, and flags regu... (capability wstore.judge.claims; tools: none (LLM-only))
- wstore-judge-disclosure — Per-channel AI-disclosure judge. Decides what disclosure a given asset requires on each destination channel — the regimes diverge and a single global flag is a... (capability wstore.judge.aidisclosure; tools: none (LLM-only))
- wstore-judge-originality — Thinness and near-duplicate screen for catalog copy and creative. Blocks scaled-content patterns — templated copy varying only by SKU token, near-identical fan... (capability wstore.judge.originality; tools: none (LLM-only))
- wstore-judge-reply — Blocking judge for customer-facing replies. Rejects any reply that asserts an uncited fact, makes a commitment the store has not authorized, omits the required... (capability wstore.judge.repliesafety; tools: none (LLM-only))
- wstore-judge-visual — Blocking visual-quality judge for the Hydrogen storefront. Consumes Impeccable detect findings (deterministic anti-slop JSON) as a sibling input to optional AF... (capability wstore.judge.visual; tools: none (LLM-only))
- wstore-scan-injectionpayload — Quarantine gate for attacker-controllable text. Scans every non-merchant envelope item — product pages, reviews, customer messages, supplier documents, assista... (capability wstore.judge.quarantine; tools: none (LLM-only))

SECTION VI

Expert panel

3 published gene(s).

Expert panel

Gene	Role	Model	Risk	What it does
wstore-expert-brand	—	sonnet	low	Advisory critic for voice, story arc, and creative direction across channels. Consulted by the content and creative loo...
wstore-expert-commerce	—	sonnet	low	Advisory critic for merchandising, pricing psychology, conversion, and storefront UX. Consulted by the listing, theme,...
wstore-expert-compliance	—	sonnet	low	Advisory critic for the dated legal surface a storefront sits on: disclosure, consent, subscription cancellation, price...

- wstore-expert-brand — Advisory critic for voice, story arc, and creative direction across channels. Consulted by the content and creative loops to say whether a draft sounds like th... (capability wstore.expert.brand; tools: none (LLM-only))
- wstore-expert-commerce — Advisory critic for merchandising, pricing psychology, conversion, and storefront UX. Consulted by the listing, theme, and pricing loops to say whether a draft... (capability wstore.expert.commerce; tools: none (LLM-only))
- wstore-expert-compliance — Advisory critic for the dated legal surface a storefront sits on: disclosure, consent, subscription cancellation, price display, accessibility, and tax registr... (capability wstore.expert.compliance; tools: none (LLM-only))

SECTION VII

Memory

2 published gene(s).

Memory

Gene	Role	Model	Risk	What it does
wstore-kb-librarian	producer	haiku	low	Cache-first recall gene that opens every chromosome with a 'what we already know' context block for the run's topic — p...
wstore-memory-curator	producer	haiku	medium	The species' sole memory writer. Runs at the end of a chromosome, distills durable facts from the run — platform quirks...

- wstore-kb-librarian — Cache-first recall gene that opens every chromosome with a 'what we already know' context block for the run's topic — prior findings, known platform quirks, st... (capability wstore.memory.retrieve; tools: none (LLM-only))
- wstore-memory-curator — The species' sole memory writer. Runs at the end of a chromosome, distills durable facts from the run — platform quirks, quota incidents, brand and pricing dec... (capability wstore.memory.curate; tools: none (LLM-only))

SECTION VIII

Action

2 published gene(s).

Action

Gene	Role	Model	Risk	What it does
wstore-notify	gateway	haiku	high	Deterministic notification effector bound to the platform notify template with retry and dead-letter handling. Delivers...
wstore-upsert-product	gateway	sonnet	high	Writes judged product drafts to the Shopify catalog as DRAFT-only records, sending full variant, metafield and collecti...

- wstore-notify — Deterministic notification effector bound to the platform notify template with retry and dead-letter handling. Delivers digest text to the owner's configured c... (capability wstore.act.notify; tools: none (LLM-only))
- wstore-upsert-product — Writes judged product drafts to the Shopify catalog as DRAFT-only records, sending full variant, metafield and collection sets so the platform's list-replace s... (capability wstore.act.product; tools: http_fetch)

SECTION IX

Chromosomes (workflows)

Published DAGs that compose the genes above.

Phase 0 workflows

Workflow	Phase 0 posture	Genes used	Goal
agent-readiness	Phase 0: walking skeleton (notify + public probe)	wstore-compose-digest, wstore-kb-librarian, wstore-monitor-citation, wstore-notify, wstor...	The storefront's agent-discovery surface and its citation state are captured, untrusted text is quarantined,...
content-calendar	Phase 0: draft-only (no live publish)	wstore-compose-digest, wstore-draft-post, wstore-fetch-social, wstore-judge-disclosure, w...	A per-channel content plan is drafted in brand voice, judged for originality and disclosure, and staged in th...
cx-inbox	Phase 0: draft-only (no live publish)	wstore-classify, wstore-compose-digest, wstore-draft-reply, wstore-judge-reply, wstore-kb...	Every new customer thread is quarantined, classified, and answered with a judged draft staged for the owner,...
listing-pipeline	Phase 0: draft-only (no live publish)	wstore-compose-digest, wstore-draft-listing, wstore-extract, wstore-judge-claims, wstore-...	Each product's attributes are extracted with their sources, and every claim appearing in a listing draft is a...
store-health-fixture	Phase 0: fixture path for offline kit checks	wstore-compose-digest, wstore-correlate, wstore-explain-anomaly, wstore-fetch-social, wst...	Fixture ingest is joined across sources, KPIs (MER/AOV/CR) are derived deterministically from known values, a...
store-health	Phase 0: observe + digest (needs store read tokens)	wstore-compose-digest, wstore-correlate, wstore-explain-anomaly, wstore-fetch-social, wst...	Yesterday's platform-reported metrics are joined across sources and a decision-first digest reaches the owner...
visual-judge-fixture	Phase 0 chromosome	wstore-judge-visual	Detect findings (or an empty clean array) reach wstore-judge-visual and produce an approved/blocked verdict w...

Confidential, prepared for NLT Labs stakeholders. Product and component names follow the NLT brand guide; internal checkout names appear only in operator builds.