

Name _____ Date _____ Period _____

Chapter 18: Regulation of Gene Expression**Overview**

The overview for Chapter 18 introduces the idea that while all cells of an organism have all genes in the genome, not all genes are expressed in every cell. What regulates gene expression? Gene expression in prokaryotic cells differs from that in eukaryotic cells. How do disruptions in gene regulation lead to cancer? This chapter gives you a look at how genes are expressed and modulated.

Concept 18.1 Bacteria often respond to environmental change by regulating transcription

1. All genes are not "on" all the time. Using the metabolic needs of *E. coli*, explain why not.

E. coli works by activating a metabolic pathway that makes tryptophan. This only happens when the human does not eat any meat. Once meat is eaten, *E. coli* stops to save its energy for when the meat is gone.

2. What are the two main ways of controlling metabolism in bacterial cells?

- Cells can adjust the activity of enzymes already present with chemical cues through feedback inhibition
- Cells can adjust the production level of the genes encoding the enzymes

3. *Feedback inhibition* is a recurring mechanism throughout biological systems. In the case of *E. coli* regulating tryptophan synthesis, is it *positive* or *negative inhibition*? Explain your choice.

It is *negative inhibition* because the accumulation of the product stops the enzyme from catalyzing it.

4. What is a *promoter*?

A *promoter* is a sequence of DNA nucleotides where RNA polymerase binds to in order to start transcription.

5. What is the *operator*? What does it do?

An *operator* is a sequence of nucleotides near the start of an operon where an active repressor can attach. It prevents RNA polymerase from attaching to the promoter and transcribing the genes of the operon.

6. What is an *operon*?

An *operon* is a unit of genetic function found in bacteria and phages. It includes a promoter, an operator, and the genes they control.

7. List the three components of an *operon*, and explain the role of each one.

- Promoter- starts transcription
- Operator- On/Off switch- synthesizes enzymes at once
- Genes they control- determines whether or not a certain amino acid will be coded for

8. How does a *repressor* protein work?

A *repressor* protein binds to the operator and blocks the attachment of RNA polymerase to the promoter, which prevents transcription of a gene.

9. What are *regulatory genes*?

Regulatory genes code for a protein that controls the transcription of another gene or group of genes.

10. Distinguish between *inducible* and *repressible operons*, and describe one example of each type.

- *Repressible operons* are usually on but can be inhibited when a specific small molecule binds allosterically to a regulatory protein. (ex: tryptophan operon)
- An *inducible operon* is usually off but can be stimulated when a specific small molecule interacts with regulatory proteins. (ex: lactose operon)

Ap Bio Chapter 17 Study Guide Answers

Yicheng Fang



Ap Bio Chapter 17 Study Guide Answers:

Discover tales of courage and bravery in is empowering ebook, Stories of Fearlessness: **Ap Bio Chapter 17 Study Guide Answers** . In a downloadable PDF format (PDF Size: *), this collection inspires and motivates. Download now to witness the indomitable spirit of those who dared to be brave.

https://matrix.jamesarcher.co/book/browse/index.jsp/introduction_to_econometrics_christopher_dougherty_solutions.pdf

Table of Contents Ap Bio Chapter 17 Study Guide Answers

1. Understanding the eBook Ap Bio Chapter 17 Study Guide Answers
 - The Rise of Digital Reading Ap Bio Chapter 17 Study Guide Answers
 - Advantages of eBooks Over Traditional Books
2. Identifying Ap Bio Chapter 17 Study Guide Answers
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Ap Bio Chapter 17 Study Guide Answers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Ap Bio Chapter 17 Study Guide Answers
 - Personalized Recommendations
 - Ap Bio Chapter 17 Study Guide Answers User Reviews and Ratings
 - Ap Bio Chapter 17 Study Guide Answers and Bestseller Lists
5. Accessing Ap Bio Chapter 17 Study Guide Answers Free and Paid eBooks
 - Ap Bio Chapter 17 Study Guide Answers Public Domain eBooks
 - Ap Bio Chapter 17 Study Guide Answers eBook Subscription Services
 - Ap Bio Chapter 17 Study Guide Answers Budget-Friendly Options
6. Navigating Ap Bio Chapter 17 Study Guide Answers eBook Formats

- ePub, PDF, MOBI, and More
 - Ap Bio Chapter 17 Study Guide Answers Compatibility with Devices
 - Ap Bio Chapter 17 Study Guide Answers Enhanced eBook Features
7. Enhancing Your Reading Experience
- Adjustable Fonts and Text Sizes of Ap Bio Chapter 17 Study Guide Answers
 - Highlighting and Note-Taking Ap Bio Chapter 17 Study Guide Answers
 - Interactive Elements Ap Bio Chapter 17 Study Guide Answers
8. Staying Engaged with Ap Bio Chapter 17 Study Guide Answers
- Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Ap Bio Chapter 17 Study Guide Answers
9. Balancing eBooks and Physical Books Ap Bio Chapter 17 Study Guide Answers
- Benefits of a Digital Library
 - Creating a Diverse Reading Collection Ap Bio Chapter 17 Study Guide Answers
10. Overcoming Reading Challenges
- Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Ap Bio Chapter 17 Study Guide Answers
- Setting Reading Goals Ap Bio Chapter 17 Study Guide Answers
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Ap Bio Chapter 17 Study Guide Answers
- Fact-Checking eBook Content of Ap Bio Chapter 17 Study Guide Answers
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
- Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
- Integration of Multimedia Elements
 - Interactive and Gamified eBooks

Ap Bio Chapter 17 Study Guide Answers Introduction

Ap Bio Chapter 17 Study Guide Answers Offers over 60,000 free eBooks, including many classics that are in the public domain. Open Library: Provides access to over 1 million free eBooks, including classic literature and contemporary works. Ap Bio Chapter 17 Study Guide Answers Offers a vast collection of books, some of which are available for free as PDF downloads, particularly older books in the public domain. Ap Bio Chapter 17 Study Guide Answers : This website hosts a vast collection of scientific articles, books, and textbooks. While it operates in a legal gray area due to copyright issues, its a popular resource for finding various publications. Internet Archive for Ap Bio Chapter 17 Study Guide Answers : Has an extensive collection of digital content, including books, articles, videos, and more. It has a massive library of free downloadable books. Free-eBooks Ap Bio Chapter 17 Study Guide Answers Offers a diverse range of free eBooks across various genres. Ap Bio Chapter 17 Study Guide Answers Focuses mainly on educational books, textbooks, and business books. It offers free PDF downloads for educational purposes. Ap Bio Chapter 17 Study Guide Answers Provides a large selection of free eBooks in different genres, which are available for download in various formats, including PDF. Finding specific Ap Bio Chapter 17 Study Guide Answers, especially related to Ap Bio Chapter 17 Study Guide Answers, might be challenging as theyre often artistic creations rather than practical blueprints. However, you can explore the following steps to search for or create your own Online Searches: Look for websites, forums, or blogs dedicated to Ap Bio Chapter 17 Study Guide Answers, Sometimes enthusiasts share their designs or concepts in PDF format. Books and Magazines Some Ap Bio Chapter 17 Study Guide Answers books or magazines might include. Look for these in online stores or libraries. Remember that while Ap Bio Chapter 17 Study Guide Answers, sharing copyrighted material without permission is not legal. Always ensure youre either creating your own or obtaining them from legitimate sources that allow sharing and downloading. Library Check if your local library offers eBook lending services. Many libraries have digital catalogs where you can borrow Ap Bio Chapter 17 Study Guide Answers eBooks for free, including popular titles. Online Retailers: Websites like Amazon, Google Books, or Apple Books often sell eBooks. Sometimes, authors or publishers offer promotions or free periods for certain books. Authors Website Occasionally, authors provide excerpts or short stories for free on their websites. While this might not be the Ap Bio Chapter 17 Study Guide Answers full book , it can give you a taste of the authors writing style. Subscription Services Platforms like Kindle Unlimited or Scribd offer subscription-based access to a wide range of Ap Bio Chapter 17 Study Guide Answers eBooks, including some popular titles.

FAQs About Ap Bio Chapter 17 Study Guide Answers Books

How do I know which eBook platform is the best for me? Finding the best eBook platform depends on your reading

preferences and device compatibility. Research different platforms, read user reviews, and explore their features before making a choice. Are free eBooks of good quality? Yes, many reputable platforms offer high-quality free eBooks, including classics and public domain works. However, make sure to verify the source to ensure the eBook credibility. Can I read eBooks without an eReader? Absolutely! Most eBook platforms offer web-based readers or mobile apps that allow you to read eBooks on your computer, tablet, or smartphone. How do I avoid digital eye strain while reading eBooks? To prevent digital eye strain, take regular breaks, adjust the font size and background color, and ensure proper lighting while reading eBooks. What the advantage of interactive eBooks? Interactive eBooks incorporate multimedia elements, quizzes, and activities, enhancing the reader engagement and providing a more immersive learning experience. Ap Bio Chapter 17 Study Guide Answers is one of the best book in our library for free trial. We provide copy of Ap Bio Chapter 17 Study Guide Answers in digital format, so the resources that you find are reliable. There are also many Ebooks of related with Ap Bio Chapter 17 Study Guide Answers. Where to download Ap Bio Chapter 17 Study Guide Answers online for free? Are you looking for Ap Bio Chapter 17 Study Guide Answers PDF? This is definitely going to save you time and cash in something you should think about.

Find Ap Bio Chapter 17 Study Guide Answers :

introduction to econometrics christopher dougherty solutions

impacts environnementaux barrage des trois gorges le tpe

inside the restless earth holt science review

~~integrated electronics by millman solutions free~~

introduction to analysis 4th edition by william r wade 2009 08 01

intermediate english grammar 2nd edition

international economics feenstra test bank

instituto politecnico nacional tesis ipn 8080

inconvenient truths about migration asia times

information measures information and its description in science and engineering signals and communication technology

industrial training report for civil engineering students

interviewing principles and practices 13th edition pdf

instant confidence paul mckenna

instructional technology and media for learning

introduction to geometry richard rusczyk

Ap Bio Chapter 17 Study Guide Answers :

kudela owaziyo inkulumompendulwano uniport edu ng - Aug 21 2022

web kudela owaziyo inkulumompendulwano housing gov mv keywords izwekazi lase afrika libhekene nenselelo yokuzibhekela lona obami fet phase isizulu language caps doc

kudela owaziyo inkulumompendulwano 2023 - Oct 03 2023

web kudela owaziyo inkulumompendulwano eventually you will certainly discover a further experience and capability by spending more cash nevertheless when attain you give a

kudela owaziyo ethekwini facebook - Mar 16 2022

web mar 11 2023 kudela owaziyo inkulumompendulwano below marine auxiliary machinery h d mcgeorge 2013 10 22 marine auxiliary machinery seventh edition is

kudela owaziyo inkulumompendulwa no old talentsprint com - Dec 13 2021

kudela owaziyo inkulumompendulwano housing gov - Jun 18 2022

web kudela owaziyo inkulumompendulwano downloaded from ai classmonitor com by guest anna kelley flower fairies of the spring dk publishing dorling kindersley relive

kwilu willy itsundala inaugure une école construite sur fonds - Nov 23 2022

web kudela owaziyo inkulumompendulwano 2 2 downloaded from uniport edu ng on august 23 2023 by guest shaka s assassination in a way that allows the reader to sympathize

kudela owaziyo inkulumompendulwano - Sep 21 2022

web may 11 2023 kudela owaziyo inkulumompendulwano 1 1 downloaded from uniport edu ng on may 11 2023 by guest kudela owaziyo inkulumompendulwano

kudela owaziyo inkulumompendulwano bueng - May 30 2023

web jun 6 2023 kudela owaziyo bp maphumulo hlolisisa ukuthi inkulumompendulwano nezenzeko izehlakalo kunabudlelwano buni nommeleli kulo

kudela owaziyo umbuzo omude ukuxhumana phakathi - Aug 01 2023

web ukuxhumana phakathi kwenkulumompendulwano kwenkulumokayedwana nesenzeko kuchaza ukuthi ngemuva kwengxoxo yabalingiswa noma kwenkulumo yomlingiswa

kudela owaziyo patrick bhekizenzo maphumulo google books - Apr 28 2023

web title kudela owaziyo author patrick bhekizenzo maphumulo publisher umtapo pub and booksellers 2009 isbn

1920018387 9781920018382 length

kudela owaziyo inkulumompendulwano 2023 - Jun 30 2023

web kudela owaziyo inkulumompendulwano getting the books kudela owaziyo inkulumompendulwano now is not type of inspiring means you could not by yourself

kudela owaziyo inkulumompendulwano ai classmonitor - May 18 2022

web jul 14 2023 kudela owaziyo inkulumompendulwano 1 1 downloaded from uniport edu ng on july 14 2023 by guest kudela owaziyo inkulumompendulwano if

kudela owaziyo inkulumompendulwano uniport edu ng - Apr 16 2022

web nov 29 2019 kudela owaziyo ethekwini 60 likes product service

kudela owaziyo inkulumompendulwano housing gov - Jul 20 2022

web kudela owaziyo inkulumompendulwano housing gov mv keywords national senior certificate ibanga le 12 ucwaningo olunzulu ngesakhiwo nobumqoka

kudela owaziyo inkulumompendulwano online kptm edu my - Jan 26 2023

web umdlalo kudela owaziyo kumele uzazi izigameko ukuze ukwazi ukuphendula umbuzo omude lapha ngihlaziye lomdlalo kafushane ngalendlela elandelayo isisusa

kudela owaziyo inkulumompendulwano uniport edu ng - Oct 23 2022

web kudela owaziyo inkulumompendulwano is available in our digital library an online access to it is set as public so you can download it instantly our books collection spans in

grade 12 isizulu home language p2 economics - Dec 25 2022

web nov 25 2021 le gouverneur de la province du kwilu willy itsundala a regagné la ville de bandundu chef lieu de la province mercredi 24 novembre 2021 après une mission

kudela owaziyo inkulumompendulwano freewebmasterhelp - Feb 12 2022

web kudela owaziyo inkulumompendulwano 1 kudela owaziyo inkulumompendulwano no amal ezulu ukufa kukashaka springboard kudela owaziyo inkulumompendulwano

kudela owaziyo inkulumompendulwano - Sep 02 2023

web 2 kudela owaziyo inkulumompendulwano 2023 06 29 vision and his thwarted plan to fight impending colonialism his dramatization of the conflict between shaka and

umdlalo kudela owaziyo umbuzo omude isakhiwana - Mar 28 2023

web sep 8 2021 0 00 17 47 umdlalo kudela owaziyo umbuzo omude isakhiwana isizulu grade 12 intervention 4 37k subscribers 786 views 2 years ago singakhohlwa bafundi

kudela owaziyo inkulumompendulwa no store spiralny com - Jan 14 2022

web kudela owaziyo inkulumompendulwano 3 3 the mighty zulu king by his two half brothers dingane and mhlangana aided and abetted by his paternal aunt mkabayi in

kukhunjulwa usteve biko kwiziko mfundo inelson - Feb 24 2023

web jul 15 2023 kudela owaziyo inkulumompendulwano author online kptm edu my 2023 07 15 07 32 53 subject kudela owaziyo inkulumompendulwano keywords

results for plant observation log tpt - Aug 04 2022

web the log includes cover page page for recording daily observation in words and pictures page for recording observation in pictures only 6 observations parts of a plant page flower leaves and stem and roots what plants need page matching words and pictures page plant part jobs parts of a flower flower part jobs plant vocabulary word cards

plant observation log example stackdockeridp fixspec - Jan 29 2022

web 4 plant observation log example 2023 01 03 presented the quantitative assessment of the effectiveness of safety measures is explained the treatment of uncertainties plays a role there they stem from the random character of the accident and from lacks of knowledge of some of the phenomena to be addressed the reader is acquainted with

results for weekly plant observation log tpt - Jul 03 2022

web pack includes printable and digital teacher planner 2022 teacher google slides planner planner can be used with power point google slides or a pdf program e g goodnotes everything is hyperlinked and editable so very easy to use and customise includes calendar weekly planner homework tracker spelling results

free printable garden journal for kids sunny day family - Feb 10 2023

web apr 10 2020 the garden planner includes a plant observation page to help kids draw and note their daily observations of how their seeds are growing there is also a daily garden journal page for them to write and draw what they see in their garden each day this is a perfect place to encourage them to look beyond their plants and take note of the birds

plant observation log mcpl info - May 13 2023

web plant observation log type of seeds planted date seeds planted week 1 week 2 week 3 week 4 week 5 week 6 week 7 week 8 week 9 title seed logs kids created date 10 21 2019 1 02 57 pm

plant observations kindergarten community learning - Mar 11 2023

web make your observations in your journal here are some words phrases that you can use or come up with your own long stem lots of roots 2 leaves seed is split starting to grow out of the bag seed coat is stuck on the stem the seed coat fell off the stem

results for plant observation journal tpt - Dec 08 2022

web plant life cycle worksheets observation journal crafty and anchor chart posters created by busy me plus three alisha satterwhite this is a 116 page set that is perfect for teaching the life cycle of a plant

[plantobservationlogexample pdf logs erpNext](#) - May 01 2022

web recreative science a record and remembrancer of intellectual observation nursery manual for native plants observations of the moon mars uranus and the stars

free gardening journal templates and other garden record - Apr 12 2023

web feb 20 2018 free gardening journal templates with seed sowing schedule plant spacing seed longevity charts seed purchase log planting and germination records and more free gardening journal templates and other garden record keeping tips

[gardening with kids free plant observation journal](#) - Jul 15 2023

web apr 20 2016 it opens conversations about the life cycle of plants and what happens in a garden the free printable has pages for what plants need to grow what we planted and daily or weekly observations in 1 2 weeks the seed will sprout and the kids can update their garden observation journals with new observations about the garden

[plant observation log example](#) - Feb 27 2022

web observations of a naturalist in the pacific between 1896 and 1899 plant dispersal distance learning for elementary stem teaching disciplinary literacy in grades k 6 how to plan rigorous instruction science in action plant observation log example downloaded from usa fre01 fibertest redmangoanalytics com by guest osborn baker

[plant observation journal](#) - Jan 09 2023

web microsoft word plant observation journal docx created date 20150113204638z

field book activity making and recording observations - Jun 14 2023

web inaturalist is a tool to identify wildlife plants and fungi and logs your entry into a research database use seek for more common observations and identifications and inaturalist if you find something really special

[plant observation log example pdf pdf networks kualumni](#) - Mar 31 2022

web ethnozoology both began largely with direct observations about the ways in which people used plants and animals and consisted mainly of the compilation of lists recently these subjects have adopted a much more scientific and quantitative methodology and have studied the ways in which people manage their environment and as a

plant observation log csu chico - Aug 16 2023

web step 1 choose a plant or two or three in your garden or community to observe step 2 print the observation log on pages 2 and 3 and answer the questions to help you document your plant s activity and the conditions in its home step 3

[plant observation log example pdf avantevapehouse](#) - Dec 28 2021

web aug 5 2023 enter the realm of plant observation log example a mesmerizing literary masterpiece penned by a distinguished author guiding readers on a profound journey to unravel the secrets and potential hidden within every word
[pin on school activities pinterest](#) - Jun 02 2022

web an adorable cover page my plant observation log planting day page for initial thoughts and observations my observation pages for 15 days last observation page for final thoughts and observations please feel free to ask any questions that you may have by emailing me at kool in kinderland gmail com

my plant observation log by teaching s a hoot by nicole johnson tpt - Nov 07 2022

web our plants and experiment were a hit at the science fair 2 ls2 1 plan and conduct an investigation to determine if plants need sunlight and water to grow this log teaches children plant vocabulary what plants need to grow and live the plant life cycle and provides several journal pages to draw write their observations of the plants

plant growth observation chart examples edraw edraw - Oct 06 2022

web a plant growth observation chart example created by edraw is shown here with this easily customizable template users can represent any existing plant growth observation chart download

plant observation activity education com - Sep 05 2022

web with this fun activity your child will become a scientist by observing recording data and drawing pictures of a growing amaryllis bulb your child will love planting her own bulb and watching it grow from the comforts of the indoors during the chilly months of the year download free activity

[best of beauty awards 2023 the 38 best tools for hair](#) - Oct 31 2021

boom cards brushing hair living skills - Mar 16 2023

web steps in a task analysis for combing hair and for toothbrushing are listed to teach effectively it is helpful to define the style in which the individual with autism learns best

[comb brush my hair checklist autism grown up](#) - Feb 15 2023

web march 25 2022 by for many children hair brushing is a challenging task due to difficulties with sensory regulation using tools such as a sensory brush or a sensory diet can help

haircutting tool kit autism speaks - Apr 05 2022

web brushing teeth task analysis pub author reed created date 3 22 2010 10 45 32 am

task analysis hair washing 18 step 17 using both course hero - May 06 2022

web merely said the brushing hair task analysis is universally compatible past any devices to read the research basis for autism intervention eric schopler 2007 05 08 as the

brushing hair combing hair visual checklist task - Jun 19 2023

web this hair brushing toolkit has everything you need to start teaching students to brush their hair it s perfect for specialist education teachers and therapists who support students to

pdf a physical analysis of hair combing processes and - Feb 03 2022

web this bundle contains a task analysis for the hygiene skills of washing hands brushing teeth and brushing hair using these forms will assist teachers in tracking the progress

hygiene task analysis 4 pack bathroom brushing - Jan 14 2023

web hair brushing showing top 8 worksheets in the category hair brushing some of the worksheets displayed are how to brush your teeth sequencing pack cosmetology

brushing hair task analysis by kim s learning tree tpt - Aug 29 2021

results for brushing task analysis tpt - Dec 13 2022

web jan 9 2020 the definition of task analysis is simple breaking a complex task into small manageable components when we do so children are more likely to be able to learn

[you need these things university of south florida](#) - Dec 01 2021

hair brushing archives the ot toolbox - Oct 11 2022

web nov 16 2012 extended wrist extension 80 of the finger fingers abduction of the fingers thumb flexion in the thumb sitting upright in a chair facing table placed 10 cm

free task analysis examples thinkpsych - Aug 21 2023

web this download contains example task analysis data sheets for brushing hair brushing teeth washing hands using the bathroom

musculoskeletal analysis of brushing hair by kate morrison prezi - Jun 07 2022

web jun 1 2018 a ph ysical analysis of hair combing proc esses and m easurements tri international hair conference june 2018 by manuel gamez garcia phd 1 assessing

hair brushing worksheets teacher worksheets - Sep 10 2022

web psy 420 task analysis hair washing 18 step 17 using both hands lift hair and rub scalp to evenly distribute the running water through hair to rinse out shampoo task

task analysis for getting dressed and hygiene thinkpsych - Aug 09 2022

web vent brush these types of brushes will not put added tension on the hair help your child to be involved in their hair care

routine while brushing or combing longer hair start

hair brushing social narrative story visual prompts - Apr 17 2023

web this hair brushing toolkit has everything you need to start teaching students to brush their hair it s perfect for specialist education teachers and therapists who support students to

bac blog brushing hair brooklyn autism center - Jul 20 2023

web feb 3 2012 task analysis 1 get the hairbrush 2 step 1 with bringing the hairbrush to her head 3 steps 1 2 with brushing the right side of her head if she is right handed

document resume ed 363 070 author depalma valerie - Nov 12 2022

web skill shared task s ad02 assess grooming and provide basic bridging intervention scope and objectives of clinical task this cti will enable the health professional to assess the

brushing hair task analysis - Jan 02 2022

web this task analysis was written for brushing hair for a student of mine she has to use the brush on her arms before she can work up to using it on her hair you can adjust the

clinical task instruction queensland health - Jul 08 2022

web toddler hair brush tips for managing hair care and sensory needs sensory issues with hair washing determine the root cause talk to your child about hair brushing autism

results for task analysis washing hair ppt - Sep 29 2021

results for task analysis for brushing hair ppt - May 18 2023

web let s brush our hair in this boom cards deck we ll be learning to brush our hair part i what do we brush part ii what do we use to brush our hair part iii choose the

brushing autism join the friendly brightautism community - Mar 04 2022

web sep 21 2023 dyson supersonic 429 at amazon why it won the dyson supersonic hair dryer produces the smoothest blowouts in record time at the record price of 400 in